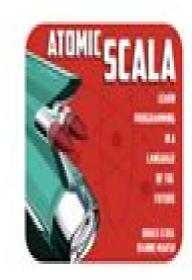
# AtomicScala/atomicscala-examples



Examples from the book "Atomic Scala" 2nd Edition by Bruce Eckel & Dianne Marsh

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# **Atomic Scala**

E Gutsche, K. Müller, P. Görlich

#### **Atomic Scala:**

Learning Concurrent Programming in Scala Aleksandar Prokopec, 2017-02-22 Learn the art of building intricate modern scalable and concurrent applications using Scala About This Book Make the most of Scala by understanding its philosophy and harnessing the power of multicores Get acquainted with cutting edge technologies in the field of concurrency through practical real world applications Get this step by step guide packed with pragmatic examples Who This Book Is For If you are a Scala programmer with no prior knowledge about concurrent programming or seeking to broaden your existing knowledge about concurrency this book is for you Basic knowledge of the Scala programming language will be helpful Also if you have a solid knowledge in another programming language such as Java you should find this book easily accessible What You Will Learn Get to grips with the fundamentals of concurrent programming on modern multiprocessor systems Build high performance concurrent systems from simple low level concurrency primitives Express asynchrony in concurrent computations with futures and promises Seamlessly accelerate sequential programs by using data parallel collections Design safe scalable and easy to comprehend in memory transactional data models Transparently create distributed applications that scale across multiple machines Integrate different concurrency frameworks together in large applications Develop and implement scalable and easy to understand concurrent applications in Scala 2 12 In Detail Scala is a modern multiparadigm programming language designed to express common programming patterns in a concise elegant and type safe way Scala smoothly integrates the features of object oriented and functional languages In this second edition you will find updated coverage of the Scala 2 12 platform The Scala 2 12 series targets Java 8 and requires it for execution The book starts by introducing you to the foundations of concurrent programming on the JVM outlining the basics of the Java Memory Model and then shows some of the classic building blocks of concurrency such as the atomic variables thread pools and concurrent data structures along with the caveats of traditional concurrency The book then walks you through different high level concurrency abstractions each tailored toward a specific class of programming tasks while touching on the latest advancements of async programming capabilities of Scala It also covers some useful patterns and idioms to use with the techniques described Finally the book presents an overview of when to use which concurrency library and demonstrates how they all work together and then presents new exciting approaches to building concurrent and distributed systems Style and approach The book provides a step by step introduction to concurrent programming It focuses on easy to understand examples that are pragmatic and applicable to real world applications Different topics are approached in a bottom up fashion gradually going from the simplest foundations to the most advanced features **Compiler Construction** Björn Franke, 2015-03-31 This book constitutes the proceedings of the 24th International Conference on Compiler Construction CC 2015 held as part of the European Joint Conferences on Theory and Practice of Software ETAPS 2015 in London UK in April 2015 The 11 papers presented in this volume were carefully reviewed and selected from 34 submissions They deal with

compiler engineering and compiling techniques compiler analysis and optimisation and formal techniques in compilers The book also contains one invited talk in full paper length Scala for Java Developers Thomas Alexandre, 2014-04-25 This step by step guide is full of easy to follow code taken from real world examples explaining the migration and integration of Scala in a Java project If you are a Java developer or a Java architect working in Java EE based solutions and want to start using Scala in your daily programming this book is ideal for you This book will get you up and running quickly by adopting a pragmatic approach with real world code samples No prior knowledge of Scala is required **Atomic Scala** Bruce Eckel, Dianne Marsh, 2015 Atomic Scala introduces the foundations of the Scala programming language in very small steps which we call atoms The book is designed to simplify learning the language for both beginners and experienced programmers Atomic Scala is meant to be your first Scala book not your last We show you enough to become familiar and comfortable with the language competent but not expert You ll be able to write useful Scala code but you won t necessarily be able to read all the Scala code you encounter Stream Processing with Apache Spark Gerard Maas, Francois Garillot, 2019-06-05 Before you can build analytics tools to gain quick insights you first need to know how to process data in real time With this practical guide developers familiar with Apache Spark will learn how to put this in memory framework to use for streaming data You ll discover how Spark enables you to write streaming jobs in almost the same way you write batch jobs Authors Gerard Maas and Fran ois Garillot help you explore the theoretical underpinnings of Apache Spark This comprehensive guide features two sections that compare and contrast the streaming APIs Spark now supports the original Spark Streaming library and the newer Structured Streaming API Learn fundamental stream processing concepts and examine different streaming architectures Explore Structured Streaming through practical examples learn different aspects of stream processing in detail Create and operate streaming jobs and applications with Spark Streaming integrate Spark Streaming with other Spark APIs Learn advanced Spark Streaming techniques including approximation algorithms and machine learning algorithms Compare Apache Spark to other stream processing projects including Apache Storm Apache Atomic Scala Bruce Eckel, Dianne Marsh, 2013 Flink and Apache Kafka Streams Professional Scala Janek Bogucki, Aliaksandr Bedrytski, Alessandro Lacava, Matthew de Detrich, Benjamin Neil, 2016-06-13 Professional Scala provides experienced programmers with fast track coverage aimed at supporting the use of Scala in professional production applications Skipping over the basics and fundamentals of programming the discussion launches directly into practical Scala topics with the most up to date coverage of the rapidly expanding language and related tools Scala bridges the gap between functional and object oriented programming and this book details that link with clear a discussion on both Java compatibility and the read eval print loop used in functional programming You ll learn the details of tooling for build and static analysis You ll cover unit testing with ScalaTest documentation with Scaladoc how to handle concurrency and much more as you build the in demand skill set required to use Scala in a real world production environment Java compliant with functional

programming properties Scala's popularity is growing quickly especially in the rapidly expanding areas of big data and cluster computing This book explains everything professional programmers need to start using Scala and its main tools quickly and effectively Master Scala syntax the SBT interactive build tool and the REPL workflow Explore functional design patterns concurrency and testing Work effectively with Maven Scaladoc Scala js and more Dive into the advanced type system Find out about Scala is A working knowledge of Scala puts you in demand As both the language and applications expand so do the opportunities for experienced Scala programmers and many positions are going unfilled Twitter Comcast Netflix and other major enterprises across industries are using Scala every day in a number of different applications and capacities Professional Scala helps you update your skills quickly to start advancing your career Concurrency on the IVM Venkat Subramaniam, 2011-08-21 More than ever learning to program concurrency is critical to creating faster responsive applications Speedy and affordable multicore hardware is driving the demand for high performing applications and you can leverage the Java platform to bring these applications to life Concurrency on the Java platform has evolved from the synchronization model of JDK to software transactional memory STM and actor based concurrency This book is the first to show you all these concurrency styles so you can compare and choose what works best for your applications You ll learn the benefits of each of these models when and how to use them and what their limitations are Through hands on exercises you ll learn how to avoid shared mutable state and how to write good elegant explicit synchronization free programs so you can create easy and safe concurrent applications. The techniques you learn in this book will take you from dreading concurrency to mastering and enjoying it Best of all you can work with Java or a JVM language of your choice Clojure JRuby Groovy or Scala to reap the growing power of multicore hardware If you are a Java programmer you d need JDK 1 5 or later and the Akka 1 0 library In addition if you program in Scala Clojure Groovy or JRuby you d need the latest version of your preferred language Groovy programmers will also need GPars Concurrency, Security, and Puzzles Thomas Gibson-Robinson, Philippa Hopcroft, Ranko Lazić, 2016-12-15 This festschrift was written in honor of Andrew William Bill Roscoe on the occasion of his 60th birthday and features tributes by Sir Tony Hoare Stephen Brookes and Michael Wooldridge Bill Roscoe is an international authority in process algebra and has been the driving force behind the development of the FDR refinement checker for CSP He is also world renowned for his pioneering work in analyzing security protocols modeling information flow human interactive security and much more Many of these areas are reflected in the 15 invited research articles in this festschrift and in the presentations at the BILL 60 symposium held in Oxford UK on January 9 and 10 2017 Automated Reasoning Nicolas Peltier, Viorica Sofronie-Stokkermans, 2020-06-30 This two volume set LNAI 12166 and 12167 constitutes the refereed proceedings of the 10th International Joint Conference on Automated Reasoning IJCAR 2020 held in Paris France in July 2020 In 2020 IJCAR was a merger of the following leading events namely CADE International Conference on Automated Deduction FroCoS International Symposium on Frontiers of Combining Systems ITP

International Conference on Interactive Theorem Proving and TABLEAUX International Conference on Analytic Tableaux and Related Methods The 46 full research papers 5 short papers and 11 system descriptions presented together with two invited talks were carefully reviewed and selected from 150 submissions The papers focus on the following topics Part I SAT SMT and QBF decision procedures and combination of theories superposition proof procedures non classical logics Part II interactive theorem proving HOL formalizations verification reasoning systems and tools The conference was held virtually due to the COVID 19 pandemic Chapter Constructive Hybrid Games is available open access under a Creative Commons Attribution 4 0 International License via link springer com Functional and Concurrent Programming Michel Charpentier, 2022-11-16 Leverage Modern Language Constructs to Write High Quality Code Faster The functional and concurrent programming language features supported by modern languages can be challenging even for experienced developers These features may appear intimidating to OOP programmers because of a misunderstanding of how they work Programmers first need to become familiar with the abstract concepts that underlie these powerful features In Functional and Concurrent Programming Michel Charpentier introduces a core set of programming language constructs that will help you be productive in a variety of programming languages now and in the future Charpentier illustrates key concepts with numerous small focused code examples written in Scala and with case studies that provide a thorough grounding in functional and concurrent programming skills These skills will carry from language to language including the most recent incarnations of Java Using these features will enable developers and programmers to write high quality code that is easier to understand debug optimize and evolve Key topics covered include Recursion and tail recursion Pattern matching and algebraic datatypes Persistent structures and immutability Higher order functions and lambda expressions Lazy evaluation and streams Threads and thread pools Atomicity and locking Synchronization and thread safe objects Lock free non blocking patterns Futures promises and functional concurrent programming As a bonus the book includes a discussion of common typing strategies used in modern programming languages including type inference subtyping polymorphism type classes type bounds and type variance Most of the code examples are in Scala which includes many of the standard features of functional and concurrent programming however no prior knowledge of Scala is assumed You should be familiar with concepts such as classes methods objects types variables loops and conditionals and have enough programming experience to not be distracted by simple matters of syntax Scala: Applied Machine Learning Pascal Bugnion, Patrick R. Nicolas, Alex Kozlov, 2017-02-23 Leverage the power of Scala and master the art of building improving and validating scalable machine learning and AI applications using Scala's most advanced and finest features About This Book Build functional type safe routines to interact with relational and NoSQL databases with the help of the tutorials and examples provided Leverage your expertise in Scala programming to create and customize your own scalable machine learning algorithms Experiment with different techniques evaluate their benefits and limitations using real world financial applications Get to know the best

practices to incorporate new Big Data machine learning in your data driven enterprise and gain future scalability and maintainability Who This Book Is For This Learning Path is for engineers and scientists who are familiar with Scala and want to learn how to create validate and apply machine learning algorithms It will also benefit software developers with a background in Scala programming who want to apply machine learning What You Will Learn Create Scala web applications that couple with JavaScript libraries such as D3 to create compelling interactive visualizations Deploy scalable parallel applications using Apache Spark loading data from HDFS or Hive Solve big data problems with Scala parallel collections Akka actors and Apache Spark clusters Apply key learning strategies to perform technical analysis of financial markets Understand the principles of supervised and unsupervised learning in machine learning Work with unstructured data and serialize it using Kryo Protobuf Avro and AvroParquet Construct reliable and robust data pipelines and manage data in a data driven enterprise Implement scalable model monitoring and alerts with Scala In Detail This Learning Path aims to put the entire world of machine learning with Scala in front of you Scala for Data Science the first module in this course is a tutorial guide that provides tutorials on some of the most common Scala libraries for data science allowing you to quickly get up to speed building data science and data engineering solutions The second course Scala for Machine Learning guides you through the process of building AI applications with diagrams formal mathematical notation source code snippets and useful tips A review of the Akka framework and Apache Spark clusters concludes the tutorial The next module Mastering Scala Machine Learning is the final step in this course It will take your knowledge to next level and help you use the knowledge to build advanced applications such as social media mining intelligent news portals and more After a quick refresher on functional programming concepts using REPL you will see some practical examples of setting up the development environment and tinkering with data We will then explore working with Spark and MLlib using k means and decision trees By the end of this course you will be a master at Scala machine learning and have enough expertise to be able to build complex machine learning projects using Scala This Learning Path combines some of the best that Packt has to offer in one complete curated package It includes content from the following Packt products Scala for Data Science Pascal Bugnion Scala for Machine Learning Patrick Nicolas Mastering Scala Machine Learning Alex Kozlov Style and approach A tutorial with complete examples this course will give you the tools to start building useful data engineering and data science solutions straightaway This course provides practical examples from the field on how to correctly tackle data analysis problems particularly for modern Big Data datasets 1963 E Gutsche, K. Müller, P. Görlich, 2022-01-19 No detailed description Functional and Logic Programming Oleg Kiselyov, Andy King, 2016-02-22 This book constitutes the available for 1963 proceedings of the 13th International Symposium on Functional and Logic Programming FLOPS 2016 held in Kochi Japan in March 2016 The 14 papers presented in this volume were carefully reviewed and selected from 36 submissions They cover the following topics functional and logic programming program transformation and re writing and extracting programs from

proofs of their correctness Government Reports Announcements & Index ,1983 Atom Chips Jakob Reichel, Vladan Vuletic, 2011-08-24 This stimulating discussion of a rapidly developing field is divided into two parts The first features tutorials in textbook style providing self contained introductions to the various areas relevant to atom chip research Part II contains research reviews that provide an integrated account of the current state in an active area of research where atom chips are employed and explore possible routes of future progress Depending on the subject the length of the review and the relative weight of the review and outlook parts vary since the authors include their own personal view and style in their Science in Nursing and Health Care Tony Farine, Mark A. Foss, 2013-11-26 The basic scientific principles accounts underlying health care become clear with this straightforward engaging and applied book The authors of Science in Nursing and Health believe that in order to provide the best patient care its necessary to understand the diverse areas of science that inform it Written in a question and answer format this book will show you how science concepts relate to nursing and health care Its packed with applications and real life examples that show how relevant a good understanding of science is to your everyday practice Science & Technology Review ,1995 **Re-entry and Planetary Entry Physics and Technology** W.H.T. Loh, 2012-12-06 During the last decade a rapid growth of knowledge in the field of re entry and planetary entry has resulted in many significant advances useful to the student engineer and scientist The purpose of offering this course is to make available to them these recent significant advances in physics and technology Accordingly this course is organized into five parts Part 1 Entry Dynamics Thermodynamics Physics and Radiation Part 2 Entry Abla tion and Heat Transfer Part 3 Entry Experimentation Part 4 Entry Concepts and Technology and Part 5 Advanced Entry Programs It is written in such a way so that it may easily be adopted by other universities as a textbook for a two semesters senior or graduate course on the subject In addition to the undersigned who served as the course instructor and wrote Chapters 123 and 4 guest lecturers included Prof FRANKLIN K MOORE who wrote Chapter 5 Entry Radiative Transfer Prof SHIH I PAl who wrote Chapter 6 Entry Radiation Magnetogasdy namics Dr CARL GAZLEY Ir who wrote Chapter 7 Entry Deaccelera tion and Mass Change of an Ablating Body Dr SINCLAIRE M SCALA who wrote Chapter 8 Entry Heat Transfer and Material Response Mr Nuclear Safety ,1982

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