



Details:

Amazon rank: #1,041,870

Price: \$42.32

bound: 124 pages

Publisher: Springer; 1st ed. 2016 edition
(October 29, 2016)

Language: English

ISBN-10: 3319464809

ISBN-13: 978-3319464800

Weight: 8 ounces

Scala: From a Functional Programming Perspective: An Introduction to the Programming Language (Lecture Notes in Computer Science)

by **Vicenç Torra**

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This book gives an introduction to the programming language Scala. It presents it from a functional programming perspective. The book explains with detail functional programming and recursivity, a

Top-level framework (BinTreeFramework) [Scala source] Second-level Euler tour framework (EulerTourVisitor) [Scala source] Second-level mapping framework (MappingVisitor) [Scala source] Second-level breadth-first framework (BreadthFirstVisitor) [Scala source] Application of BinTree frameworks (BinTreeTest) [Scala source] John Vlissides Background reading: "Strictness and Laziness," Chapter 5, Paul Chiusano and Runar Bjarnason, Functional Programming in Scala Strictness and Laziness lecture notes to accompany Chapter 5 [HTML] [PDF] Stream implementation from notes: StreamC.scala Big idea: Exploiting nonstrict function to increase efficiency, increase code reuse, and improve modularity Concepts: Strict and nonstrict (lenient) functions/parameters, termination, bottom, call-by-name, thunk, forcing, call-by-need, lazy evaluation, lazy lists or streams, Stream data type, smart constructors, memoization, lazy variables, purity of functions, separation of concerns, information hiding, design secret, abstract interface, business logic, Model-View-Controller (MVC) design pattern, keeping program description separate from evaluation, incremental computation, prime number, Sieve of Eratosthenes, recursive, corecursive (guarded recursion), productivity (cotermination) Sannella (Audio help) More spoken articles Real World Haskell Concepts: abstraction, procedural and data abstraction, procedure, function, method, concrete and abstract data structure, interface, information hiding, secret, encapsulation, state, instance, type, abstract data type (ADT), ADT operation, ADT specification (name, set, signatures, semantics), axiomatic (algebraic) semantics, constructive semantics (abstract model), axiom, invariant, interface and implementation invariants, preconditions and postconditions, constructor, mutator, accessor, destructor, atomic operation, generic parameter, total and partial functions, client-supplier contract, ADT design criteria JavaScript, one of the world's most widely distributed languages,[21][22] has the properties of an untyped functional language,[23] as well as imperative and object-oriented paradigms Steps in Scala: An Introduction to Object-Functional Programming (2010) by Christos K"defmacro Functional Programming For The Rest of Us"[adapted from the Wikipedia article on lazy evaluation, 2015-03-23] Movable and Named Objects case study (in Lua but based on a Haskell case study by Thompson) Purpose: The Named and Movable Objects case study explores use of inheritance hierarchies and multiple inheritance in Lua Peter J acfb50e82b

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