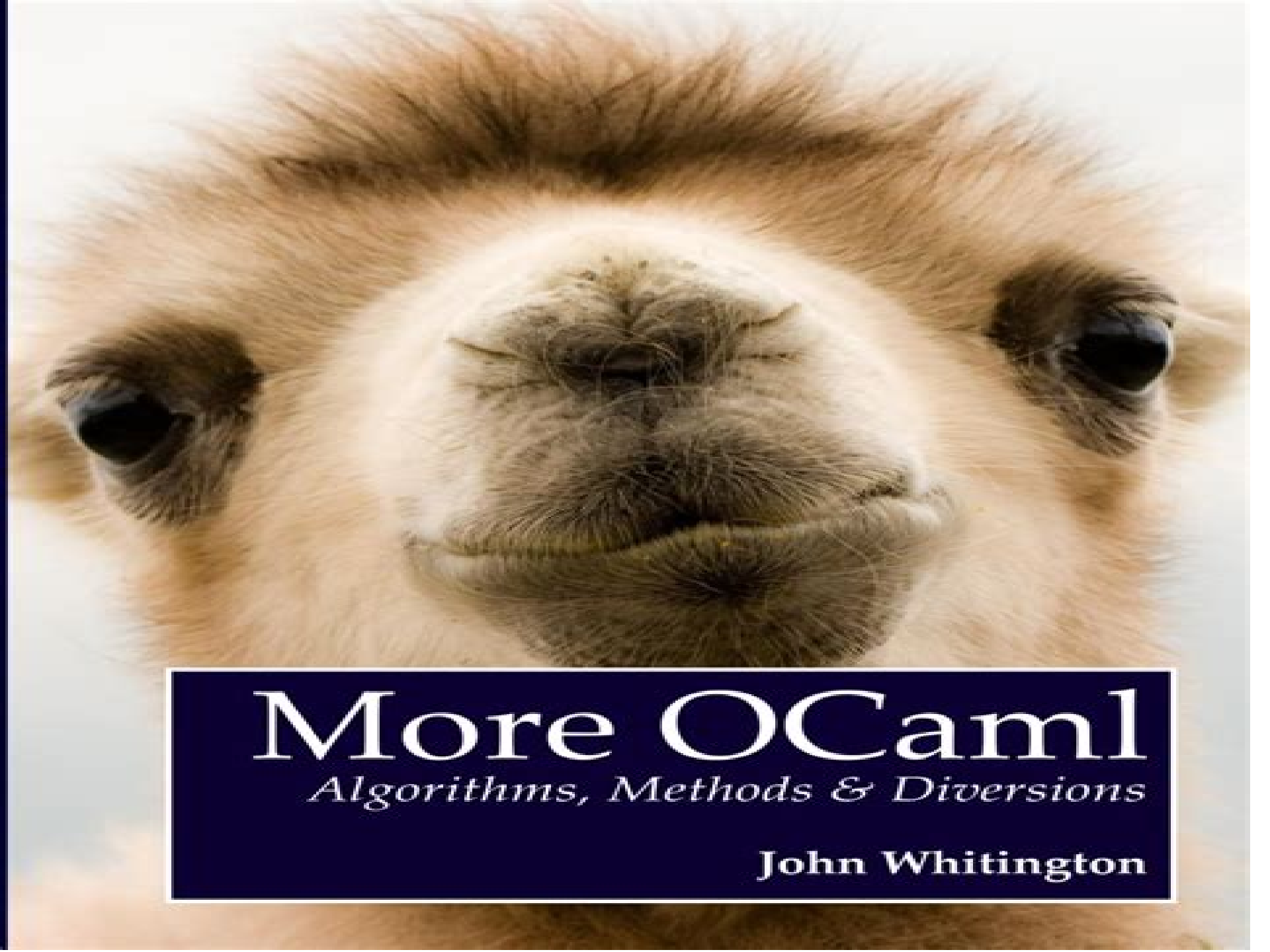




More OCaml

Algorithms, Methods & Diversions

John Whittington

More Ocaml Algorithms Methods And Diversions

John Whittington



More OCaml Algorithms Methods And Diversions:

More OCaml John Whittington, 2014-09-01 In *More OCaml* John Whittington takes a meandering tour of functional programming with OCaml introducing various language features and describing some classic algorithms The book ends with a large worked example dealing with the production of PDF files There are questions for each chapter together with worked answers and hints *More OCaml* will appeal both to existing OCaml programmers who wish to brush up their skills and to experienced programmers eager to explore functional languages such as OCaml It is hoped that each reader will find something new or see an old thing in a new light For the more casual reader or those who are used to a different functional language a summary of basic OCaml is provided at the front of the book [OCaml from the Very Beginning](#) John

Whittington, 2013 In *OCaml from the Very Beginning* John Whittington takes a no prerequisites approach to teaching a modern general purpose programming language Each small self contained chapter introduces a new topic building until the reader can write quite substantial programs There are plenty of questions and crucially worked answers and hints *OCaml from the Very Beginning* will appeal both to new programmers and experienced programmers eager to explore functional languages such as OCaml It is suitable both for formal use within an undergraduate or graduate curriculum and for the interested amateur **A Machine Made this Book** John Whittington, 2016-02-22 How do we decide where to put ink on a page to draw letters and pictures How can computers represent all the world's languages and writing systems What exactly is a computer program what and how does it calculate and how can we build one Can we compress information to make it easier to store and quicker to transmit How do newspapers print photographs with grey tones using just black ink and white paper How are paragraphs laid out automatically on a page and split across multiple pages In *A Machine Made this Book* using examples from the publishing industry John Whittington introduces the fascinating discipline of Computer Science to the uninitiated

[Python from the Very Beginning](#) John Whittington, 2020-10-03 In *Python from the Very Beginning* John Whittington takes a no prerequisites approach to teaching the basics of a modern general purpose programming language Each small self contained chapter introduces a new topic building until the reader can write quite substantial programs There are plenty of questions and crucially worked answers and hints *Python from the Very Beginning* will appeal both to new programmers and to experienced programmers eager to explore functional languages such as Haskell It is suitable both for formal use within an undergraduate or graduate curriculum and for the interested amateur [Haskell from the Very Beginning](#) John

Whittington, 2019-09-30 In *Haskell from the Very Beginning* John Whittington takes a no prerequisites approach to teaching the basics of a modern general purpose programming language Each small self contained chapter introduces a new topic building until the reader can write quite substantial programs There are plenty of questions and crucially worked answers and hints *Haskell from the Very Beginning* will appeal both to new programmers and to experienced programmers eager to explore functional languages such as Haskell It is suitable both for formal use within an undergraduate or graduate

curriculum and for the interested amateur *OCaml Scientific Computing* Liang Wang,Jianxin Zhao,Richard Mortier,2022-05-26 This book is about the harmonious synthesis of functional programming and numerical computation It shows how the expressiveness of OCaml allows for fast and safe development of data science applications Step by step the authors build up to use cases drawn from many areas of Data Science Machine Learning and AI and then delve into how to deploy at scale using parallel distributed and accelerated frameworks to gain all the advantages of cloud computing environments To this end the book is divided into three parts each focusing on a different area Part I begins by introducing how basic numerical techniques are performed in OCaml including classical mathematical topics interpolation and quadrature statistics and linear algebra It moves on from using only scalar values to multi dimensional arrays introducing the tensor and Narray core data types in any numerical computing system It concludes with two more classical numerical computing topics the solution of Ordinary Differential Equations ODEs and Signal Processing as well as introducing the visualization module we use throughout this book Part II is dedicated to advanced optimization techniques that are core to most current popular data science fields We do not focus only on applications but also on the basic building blocks starting with Algorithmic Differentiation the most crucial building block that in turn enables Deep Neural Networks We follow this with chapters on Optimization and Regression also used in building Deep Neural Networks We then introduce Deep Neural Networks as well as topic modelling in Natural Language Processing NLP two advanced and currently very active fields in both industry and academia Part III collects a range of case studies demonstrating how you can build a complete numerical application quickly from scratch using Owl The cases presented include computer vision and recommender systems This book aims at anyone with a basic knowledge of functional programming and a desire to explore the world of scientific computing whether to generally explore the field in the round to build applications for particular topics or to deep dive into how numerical systems are constructed It does not assume strict ordering in reading readers can simply jump to the topic that interests them most *Essentials of OCaml Programming* Richard Johnson,2025-06-24 Essentials of OCaml Programming Essentials of OCaml Programming offers a comprehensive and in depth exploration of the OCaml programming language guiding readers from foundational language principles to advanced professional techniques The book begins by situating OCaml within the broader ML family providing a detailed understanding of its syntax type system compilers and the modern toolchain including OPAM and Dune Through clear explanations and practical advice readers build a strong foundation in both the language s semantics and its unique features ensuring immediate applicability to real world development Progressing beyond the basics the text delves into advanced functional programming patterns robust type driven design and highly modular code organization Readers are equipped with practical strategies for leveraging OCaml s signature module system comprehensive error handling with monads and both functional and imperative paradigms Topics such as concurrency parallelism metaprogramming and systems integration are addressed in depth enabling developers to

tackle complex software challenges with confidence and efficiency The book s final chapters provide a professional perspective on software quality performance optimization and modern deployment practices as well as a panoramic view of OCaml s applications in fields like web development finance AI and systems programming With a balanced blend of theory practical advice and real world examples Essentials of OCaml Programming is a definitive guide for both aspiring and seasoned OCaml developers aiming to master every facet of the language and its thriving ecosystem

Real World OCaml: Functional Programming for the Masses Anil Madhavapeddy, Yaron Minsky, 2022-10-13 This fast moving tutorial introduces you to OCaml an industrial strength programming language designed for expressiveness safety and speed Through the book s many examples you ll quickly learn how OCaml stands out as a tool for writing fast succinct and readable systems code using functional programming Real World OCaml takes you through the concepts of the language at a brisk pace and then helps you explore the tools and techniques that make OCaml an effective and practical tool You ll also delve deep into the details of the compiler toolchain and OCaml s simple and efficient runtime system This second edition brings the book up to date with almost a decade of improvements in the OCaml language and ecosystem with new chapters covering testing GADTs and platform tooling This title is also available as open access on Cambridge Core thanks to the support of Tarides Their generous contribution will bring more people to OCaml

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