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Title Real World OCaml: Functional programming for authors of the masses (s) Yaron Minsky, Anil Madhavapeddi, Jason Hickey Publisher: O'Reilly Media (December 22, 2013); e-book (RealWorldOcaml.org, 2013 - Date) Hardcover/Paperback 499 pages eBook HTML Language: English ISBN-10: 978-1449323912 ISBN-13: N/A Share This: Book Description Learn how to solve day-to-day data processing problems, numerical computing, system scripts and web-driven database-controlled software databases with OCaml multi-paradigm programming. This practical book shows you how to take advantage of OCaml's functional, imperative and object-oriented programming styles with recipes for many real-world tasks. You'll start with OCaml's basics, including how to customize the development environment, and move on to more advanced topics such as a modular system, a foreign interface, a macro language, and a ocamlbuild system. Learn how to get OCaml to work quickly to write short and readable code. About the authors Yaron Minsky heads the technology group on Jane Street, its own trading firm, which is the largest industrial user of OCaml. He was responsible for introducing OCaml into the company and managing the company's transition to using OCaml for all of its core infrastructure. Anil Madhavapeddy is a senior fellow at the University of Cambridge, based in the Systems Research Group. He was on the original team that developed Xen's hypervisor, and helped develop the industry's leading cloud management tool, written entirely in OCaml. Jason Hickey is a software engineer at Google Inc. in Mountain View, California. He is part of a team that develops and develops the global computing infrastructure used to support Google's services, including software systems for managing and planning massively distributed computing resources. Reviews, Ratings and Recommendations: Related Book Category: Read and Download Links: Related Books: Start Your Real World Review of OCaml: Functional Programming for the Masses Is What It Says on Tin - this book focuses on learning ocaml with lots of code examples that tend to be close to the things you really do. The first major section discusses the language itself, which is quite thorough, and the second section deals with practical patterns such as the sventure and when to use certain types of data. Practicality extends to its use of Core, replacing the standard library, instead of learning a language without any dependencies - it's not like you goin Lee what it says on the tin - this book focuses on teaching ocaml with lots of examples of code that tend to be close to things you really do. The first major section discusses the language itself, which is quite thorough, and the second section deals with practical patterns such as sventure and when to use certain types of data. Practicality extends to the use of Core, replacing the standard library, instead of learning a language without any - it's not the way you're going to use it. Overall, very few problems with code examples or things I thought were explained poorly or glossed over. Recommended. Alternatively, you can read it online for free. Yes. ... More This book is a gem. OCaml is a great language - I regret not getting to know it when I had more free time on my hands. It feels very reminiscent of Haskell, with two main differences - it's strict and allows side effects. Those making reasoning about behavior easier and eliminating the need for anything that Monada transformer nonsense. It's also a very rich feature, and it even has objects (although they're not as noticeable as you would except, given that O's OCaml means Target). This seems to be a th This book is a gem. OCaml is a great language - I regret not getting to know it when I had more free time on my hands. It feels very reminiscent of Haskell, with two main differences - it's strict and allows side effects. Those making reasoning about behavior easier and eliminating the need for anything that Monada transformer nonsense. It's also a very rich feature, and it even has objects (although they're not as noticeable as you would except, given that O's OCaml means Target). It seems to be a functional language to choose if you are doing something practical. For example, Facebook uses it for Hack, Flow and ReasonML.There is a trading firm, Jane Street Capital, which uses OCaml for all its belongings. They have completely rewrote the standard library and have a set of replacement libraries (Base, Core_kernel and Core). The book introduces you to OCaml through these libraries, which is not surprising, as it is shared with them by the author (Yaron Minsky). I don't know if this is an industry standard, but it's very good and worth learning. The book begins with an introduction to the language, slowly joins with some examples of combat hash, command-line tools and JSON, and goes completely bonkers on parsing, lexicting, asynchronous programming, FFI, memory layout and garbage collector, and finally compiler interface and backend. Although the first chapters are quite random, the final ones can be quite challenging. If you don't like PLT, in which case they are pretty treatable. On the other hand, he didn't feel like he was covering all the corners of his tongue. There are bits in the OCaml guide that have not been explored in the book, and I was left with the impression that language deeper than the real world of OCaml made me wonder. However, maybe it's for the best - I got a lot more excited about having some apps than I would if it covered every nook and crannie first. If you're into functional programming and you don't know OCaml yet, you should definitely learn it. This is a book to start with. ... More This is a very thorough and practical introduction to the language. It goes pretty much through everything language itself - from the main language through first class modules, functors to the object system. Teh Teh The thing missing at the moment is the author of your own syntax extensions, but you have to draw a line somewhere and I think that's a good place to stop. The book does not use a small standard library supplied with a compiler, and for good reason. It focuses on one of this very thorough and practical introduction to the language. It goes through pretty much all the features of the language itself - from the main language through first class modules, functors to the object system. The only thing missing at the moment is the author of your own syntax extensions, but you have to draw the line somewhere and I think it's a good place to stop. The book does not use a small standard library supplied with a compiler, and for good reason. It focuses on one of the most popular replacement libraries, which is quite modern and proven in the industry, even if not necessarily my first choice because of what I am currently using OCaml for. The choice will only matter for a few chapters of the practical part - if you choose a different library, you probably won't use their sexp serialization or library async. I particularly liked the inclusion of chapters describing in more detail how compiler and garbage collection work. You may never have to play with them, but personally I believe that some review of how your source code turns into machine instructions and what to expect from performance time running and memory usage. ... The more I read the updated v2This great book to learn the basics OCaml.It explains all the basic concepts and goes beyond them. This brings huge benefits from the fact that it is co-written by people who actively use and drive OCaml forward. This is also a decent guide to OCaml features because online documentation can be very bad for beginners. I might be a bit harsh, but based on all the positive reviews, I was expecting a lot more book. What you get is an easy introduction to the world of OCaml, which touches on most aspects of software development in OCaml. However, when they approach a more complex topic, the authors simply say: there is some kind of magic going on and they are giving it up. For example, the SExp library. I'd love to know how it is implemented and how compiler extension is being developed, but the book does not touch any of this I could be a bit harsh, but based on all the positive reviews, I expected a lot more book. What you get is an easy introduction to the world of OCaml, which touches on most aspects of software development in OCaml. However, when they approach a more complex topic, the authors simply say: there is some kind of magic going on and they are giving it up. For example, the SExp library. I'd love to know how it's implemented and how compiler extension is being developed, but the book doesn't touch anything out but no, here's some magic, let's move on. It would also help readability if code samples were highlighted by syntax (and if they used the correct file names), files), there's nothing serious about it. If you're looking for basically a complete introduction to the language, go ahead and read it. However, if you already know the basics of OCaml and want to understand the principles in detail, you should look for other sources. ... More This book, like the whole Real World series gives you a deep introduction to the language and will allow you to start coding pretty quickly... Of course... if you've used any functional programming language before... that really helps and OCaml certainly has some aspects that makes it not so easy to learn... The more you read this book, the more you are going to like OCaml... It's a really good language -:)Kni book covers basics like lists and templates, reports, options and bug processing. But o This book, like all the Real World series gives you a deep introduction to language and will allow you to start coding pretty quickly... Of course... if you've used any functional programming language before... that really helps and OCaml certainly has some aspects that makes it not so easy to learn... The more you read this book, the more you are going to like OCaml... It's a really good language -:)Kni book covers basics like lists and templates, reports, options and bug processing. But of course it goes beyond with Functors, Objects and Team-Line Parsing... not giving important concepts as JSON handling parallel programming aside. So... it's a pretty complete link to start. By the way... The book is 509 pages long... so it's quite a long time ... but full of examples and demonstrations ... ... More It was good. My first book about OCaml, it was pragmatic enough to teach you common gotchas, and to be simple and organized enough that it could be used as a reference. Links.