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Comprehensive guide for establishing a strong foundation in Haskell and developing pragmatic code
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This Book Is For This book is targeted at readers who wish to learn the Haskell language. If you are a beginner, Haskell Cookbook will get you started. If you are experienced, it will expand your knowledge base. A basic knowledge of programming will be helpful.

What You Will Learn Use functional data structures and algorithms to solve problems Understand the intricacies of the type system Create a simple parser for integer expressions with additions Build high-performance web services with Haskell Master mechanisms for concurrency and parallelism in Haskell

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Perform parsing and handle scarce resources such as filesystem handles Organize your programs by creating your own types and type classes In Detail Haskell is a purely functional language that has the great ability to develop large and difficult, but easily maintainable software.

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Transformers. You will learn various ways to handle state in your application and explore advanced topics such as Generalized Algebraic Data Types, higher kind types, existential types, and type families. The book will discuss the association of lenses with type classes such as Functor, Foldable, and Traversable to help you manage deep data structures. With the help of the wide selection of examples in this book, you will be able to upgrade your Haskell programming skills and develop scalable software idiomatically. Style and approach The book follows a recipe-based approach. Each

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recipe addresses specific problems and issues. The recipes provide discussions and insights to explain these problems.

If you have a working knowledge of Haskell, this hands-on book shows you how to use the language's many APIs and frameworks for writing both parallel and concurrent programs. You'll learn how parallelism exploits multicore processors to speed up computation-heavy programs, and how concurrency enables you to write programs with threads for multiple interactions. Author Simon Marlow walks you through the

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- Express parallelism in Haskell with the Eval monad
- Evaluation Strategies
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- Build trees of threads for

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