

Type Driven Development With Idris

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Type Driven Development With Idris

Type Driven Development in Idris

Type Driven Development in Idris Edwin Brady (ecb10@st-andrews.ac.uk) University of St Andrews, Scotland, UK @edwinbrady Kats Workshop, Dublin, 21st May 2016

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Type Driven Development With Idris

Type-Driven Development with Idris, written by the creator of Idris, teaches you how to improve the performance and accuracy of your programs by taking advantage of a state-of-the-art type system This book teaches you with Idris, a language designed from the very beginning to support type-driven development

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Type-Driven Development with Idris, written by the creator of Idris, teaches programmers how to improve the performance and accuracy of programs by taking advantage of a state-of-the-art type system This book teaches readers using Idris, a language designed from the very beginning to support type-driven development

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support type-driven development A prototype implementation first appeared in 2008, with development of the current implementation beginning in

2011 It builds on decades of research into the theoretical and practical foundations of programming languages and type systems In Idris, types are a first-class language construct Types can be

Type-driven Development of Communicating Systems in Idris

Idris is a pure functional language with dependent types: Encourages Type-driven Development Totality checking In this talk: Total Functional Programming Termination and Productivity Total Functional Programming and Interaction A practical example: Type Safe Concurrency

Type Driven Development With Idris

Idris Type Driven Development in Idris Edwin Brady (ecb10@st-andrews.ac.uk) University of St Andrews, Scotland, UK @edwinbrady Kats Workshop, Dublin, 21st May 2016 Type Driven Development in Idris Edwin Brady is the creator of the Idris programming language and author of the book Type-Driven Development with Idris and a computer science lecturer

The Idris Tutorial

program development, with many more examples, see Type-Driven Development with Idris by Edwin Brady, available from Manning 12 Example Code This tutorial includes some example code, which has been tested with against Idris These files are available with the Idris distribution, so that you can try them out easily They can be found under samples

Idris 2: Quantitative Type Theory in Action

at the type level; improving interactive program development by reducing the search space for type-driven program synthesis; and, resource tracking in the type system leading to type-safe concurrent programming with session types 1 INTRODUCTION Dependently typed programming languages, such as Idris [Brady2013], Agda [Norell2007],

Experience Report: Type-Driven Development of Certified ...

Type-driven development has been advocated in the functional programming community - Type-Driven Development with Idris Manning, 2016 [4] Adam Chlipala Certified Programming with Dependent Types: A Pragmatic Introduction to the Coq Proof Assistant The MIT Press, 2013

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Type Driven Development in Idris Idris: A Language for Type-Driven Development Idris is a programming language designed to encourage Type-Driven Development In type-driven Page 3/11 Download Ebook Type Driven Development With Idris development, types are tools for constructing programs We treat the

TYPE-DRIVEN DEVELOPMENT OF CONCURRENT ...

Type-driven development of concurrent communicating systems 221 I make the following specific contributions: I present a method for describing resource access protocols in the type system, using dependent types to capture resource state and uniqueness types ...

Version 1 - Read the Docs

program development, with many more examples, see Type-Driven Development with Idris by Edwin Brady, available from Manning Example Code This tutorial includes some example code, which has been tested with against Idris These files are available with the Idris distribution, so that you can try

them out easily They can be found under samples

Idris

CHAPTER1 TheIdrisTutorial This is the Idris Tutorial It provides a brief introduction to programming in the Idris Language It coversthecorelanguagefeatures,andassumessomefamilia

Safersmartcontractsthroughtype-driven

Safersmartcontractsthroughtype-driven development Using dependent and polymorphic types for safer develop- the vibrant Ethereum and Idris communities have both been very responsive and Our thesis is that a functional language with an extensive type system can allow

TYPE-DRIVEN DEVELOPMENT OF CONCURRENT ...

Idris is a purely functional language with dependent types The syntax is heavily inspired by Haskell [19] Like Haskell, Idris supports algebraic data types with pattern matching, type classes, and syntactic conveniences such as list comprehensions and do notation Unlike Haskell, however, Idris is evaluated eagerly by default, and supports

Type-Driven Development with Idris - ITBook.store

Type-Driven Development with Idris by Edwin Brady Chapter 13 In Idris, we have an expressive type only that, you can take a type-driven approach to defining sequences of actions using holes and interactive development We'll begin with some fairly abstract examples to