

## Purely Functional Data Structures Chris Okasaki

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### Purely Functional Data Structures Chris

Purely Functional Data Structures Chris Okasaki September 1996 CMU-CS-96-177 School of Computer Science Carnegie Mellon University Pittsburgh, PA 15213 Submitted in partial fulfillment of the requirements for the degree of Doctor of Philosophy. Thesis Committee: Peter Lee, Chair Robert Harper

### Purely Functional Data Structures

This book describes data structures from the point of view of functional languages, with examples, and presents design techniques so that programmers can develop their own functional data structures. It includes both classical data structures, such as red-black trees and binomial queues, and a host of new data structures developed exclusively for functional languages.

### Purely Functional Data Structures by Chris Okasaki

This book explains how to build purely functional data structure, that is, persistent structures that are not directly modified but rather copied and rebuild. Chris explains how to use lazy evaluation and other advanced functional techniques in order to reconcile functional programming and efficiency.

### Purely Functional Data Structures by Chris Okasaki

Chris Okasaki, Ph.D. is an associate professor of computer science at the United States Military Academy. He authored Purely Functional Data Structures (1998), based on a doctoral dissertation of the same name. He obtained a Ph.D. at Carnegie Mellon University in 1996 under advisers Peter Lee, Robert Harper, Daniel Sleator, and Robert Tarjan. ...

### Chris Okasaki - Wikipedia

User Review - Flag as inappropriate This is a great book. An improved version of Okasaki's PhD thesis, the book introduces the reader to the notion of efficient data structures which still get to be purely functional (i.e. not imperative, no side-effects). A common problem with purely functional data structures is that, since there is no state, we can't change the value of a variable once it ...

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Main Purely functional data structures. Purely functional data structures Okasaki, Chris. Data structures and data structure design techniques for functional languages. Year: 2003. Edition: 1st. Publisher: Cambridge University Press. Language: english. Pages: 220 / 232 ...

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### **Purely Functional Data Structures ( )**

This book describes data structures from the point of view of functional languages, with examples, and presents design techniques so that programmers can develop their own functional data structures. It includes both classical data structures, such as red-black trees and binomial queues, and a host of new data structures developed exclusively for functional languages.

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Formally a Purely functional data structure is a data structure which can be implemented in a purely functional language, such as Haskell. In practice, it means that the data structures must be built using only persistent data structures such as tuples, sum types, product types, and basic types such as integers, characters, strings.

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Immutable or "purely functional" data structures, the focus of Chris Okasaki's 1996 Ph.D. thesis and the subject of ongoing exploration in the FP c...

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### **Purely Functional Data Structures eBook: Okasaki, Chris ...**

Purely functional data structures for OCaml, translated from Chris Okasaki's book "Purely Functional Data Structures" View on GitHub Download .zip Download .tar.gz Pure-Fun - Purely Functional Data Structures for OCaml What is Pure-Fun? The files in this project contain an SML-to-OCaml translation of source examples taken from the following book:

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Okasaki's book on purely functional data structures is a timeless classic. Every programmer -- functional or otherwise -- should have a copy at arm's length. This book remains the best resource available on implementing performant purely functional versions of well-known data structures -- the kind of data structures that everyday programmers need to get their jobs done.

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