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Since Chris Okasaki's 1998 book "Purely functional data structures", I haven't seen too many new exciting purely functional data structures appear; I can name just a few: IntMap (also invented by Okasaki in 1998, but not present in that book) Finger trees (and their generalization over monoids)

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However, data structures for these languages do not always translate well to functional languages such as Standard ML, Haskell, or Scheme. 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.

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In computer science, a purely functional data structure is a data structure that can be implemented in a purely functional language. The main difference between an arbitrary data structure and a purely functional one is that the latter is immutable. This restriction ensures the data structure possesses the advantages of immutable objects: persistency, quick copy of objects, and thread safety. Efficient purely functional data structures may require the use of lazy evaluation and

memoization.

# Purely functional data structure - Wikipedia

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 community, are not just for "purely functional ...

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Quotes by Chris Okasaki. Persistence is achieved by copying the affected nodes of a data structure and making all changes in the copy rather than in the original." — Chris Okasaki , Purely Functional Data Structures.

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Okasaki's "Purely Functional Data Structures" firmly fits into the latter category. The book provides a relatively complete survey of all the academic literature on the topic and presents it in a way that is understandable to an advanced programmer.

# **Purely Functional Data Structures Chris Okasaki**

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