

# Properties for Persistence?

- ✦ **Orthogonal to types :**
  - Data of any type can be persistent
- ✦ **Transparent to programmer :**
  - Programmer can treat persistent and non-persistent objects the same way
- ✦ **Independent from mass storage:**
  - No explicit read and write to persistent database

# Data Types And Persistence

**J Rink**



## **Data Types And Persistence:**

*Data Types and Persistence* Malcolm P. Atkinson, Peter Buneman, Ronald Morrison, 2012-12-06 There is an established interest in integrating databases and programming languages This book on Data Types and Persistence evolved from the proceedings of a workshop held at the Appin in August 1985 The purpose of the Appin workshop was to focus on these two aspects persistence and data types and to bring together people from various disciplines who have thought about these problems Particular topics of interest include the design of type systems appropriate for database work the representation of persistent objects such as data types and modules and the provision of orthogonal persistence and certain aspects of transactions and concurrency The programme was broken into three sessions morning late afternoon and evening to allow the participants to take advantage of two beautiful days in the Scottish Highlands The financial assistance of the Science and Engineering Research Council the National Science Foundation and International Computers Ltd is gratefully acknowledged We would also like to thank Isabel Graham Anne Donnelly and Estelle Taylor for their help in organising the workshop Finally our thanks to Pete Bailey Ray Carick and Dave Munro for the immense task they undertook in typesetting the book The convergence of programming languages and databases to a coherent and consistent whole requires ideas from and adjustment in both intellectual camps The first group of chapters in this book present ideas and adjustments coming from the programming language research community This community frequently discusses types and uses them as a framework for other discussions

Security and Persistence John Rosenberg, J. Leslie Keedy, 2012-12-06 During a short visit to Bremen in December 1989 John Rosenberg had several discussions with me about computer architecture Although we had previously worked together for more than a decade in Australia we had not seen each other for over a year following my move to Bremen in 1988 Meanwhile John was spending a year on study leave at the University of St Andrews in Scotland with Professor Ron Morrison and his persistent programming research group From our conversations it was quite clear that John was having a most fruitful time in St Andrews and was gaining valuable new insights into the world of persistent programming He was very keen to explore the significance of these insights for the MONADS Project which we had been jointly directing since the early 1980s MONADS was not about persistent programming In fact it had quite different origins in the areas of software engineering and information protection In an earlier stage of the project our ideas on these themes had led us into the world of computer architecture and even hardware design in our attempts to provide an efficient base machine for our software ideas The most important practical result of this phase of the project had been the development of the MONADS PC a mini computer which would be better compared with say a V tv

## **Readings in Object-Oriented**

**Database Systems** Stanley B. Zdonik, David Maier, 1990 This comprehensive collection is a survey of research in object oriented databases offering a substantive overview of the field section introductions and over 40 research papers presented in their original scope and detail The balanced selection of articles presents a confluence of ideas from both the language and

database research communities that have contributed to the object oriented paradigm The editors develop a general definition and model for object oriented databases and relate significant research efforts to this framework Further the collection explores the fundamental notions behind object oriented databases semantic data models implementation of object oriented systems transaction processing interfaces and related approaches Research and theory are balanced by applications to CAD systems programming environments and office information systems

Persistent Object Systems Antonio Albano,Ron Morrison,2012-12-06

**Advances in Persistent Object Systems** Ron Morrison,Mick Jordan,Malcolm Atkinson,1999-01-22 Proceedings of the biennial International Workshops on Persistent Object Systems

**Developing Web Applications with Haskell and Yesod** Michael Snoyman,2012-04-23 This fast moving guide introduces web application development with Haskell and Yesod a potent language framework combination that supports high performing applications that are modular type safe and concise You ll work with several samples to explore the way Yesod handles widgets forms persistence and RESTful content You also get an introduction to various Haskell tools to supplement your basic knowledge of the language By the time you finish this book you ll create a production quality web application with Yesod s ready to use scaffolding You ll also examine several real world examples including a blog a wiki a JSON web service and a Sphinx search server Build a simple application to learn Yesod s foundation datatype and Web Application Interface WAI Use Shakespearean template languages for HTML CSS and Javascript output Produce cleaner more modular code by learning how Yesod monads interact Implement the yesod form declarative API to build forms on top of widgets Learn how Yesod and Haskell store session data and handle persistence Use techniques to serve an HTML page and a machine friendly JSON page from the same URL Create reusable components for several applications with Yesod subsites

**AUUGN**,1993-06

**Partial Implementations of Abstract Data Types** Myla Marguerite Archer,University of Illinois at Urbana-Champaign. Department of Computer Science,1988

PS-ALGOL Implementations W. Paul Cockshott,1990 Covering the main features of the language PS Algol including its syntax types and control structures the first part of the book looks at PS Algol orthogonal treatment of maps first class functions and persistence The latter half contains implementation techniques for the heap and the persistent store Annotation copyrighted by Book News Inc Portland OR

*Implementing Persistent Object Bases* Alan Dearle,Gail M. Shaw,Stanley Benjamin Zdonik,1991

*An Introduction to Database Systems* C. J. Date,1990 In depth and tutorial treatment of relational data base systems detailed coverage of DB2 INGRES and SQL

**Proceedings**,1986

Proceedings of Ninth Annual National Conference on Ada Technology,1991

**Object-oriented Databases** Bindu Rama Rao,1994 Object oriented paradigm Object oriented methodologies Relational databases and OODBMS The goals of OODBMSs OODB features Persistence Object identity OODB Architectures Objectstore Objectivity DB Versant Evaluation of OODBMSs Research in OODB

*Database Systems Handbook* Paul J. Fortier,1997 With a unique systematic coverage of next generation databasing this essential handbook gives computing professionals

working in distributed systems a one stop source of information and tips on the design operation and use of database management systems for a wide variety of applications [A Critical Analysis of Student Persistence at the University of Iowa](#) Russell Tallman (Warrick),1929 *Automated Software Engineering* ,1997 **Mobile Agents** ,1997 [Software Paradigms](#) Stephen H. Kaisler,2005-03-17 Publisher Description *Object Databases* Mary E. S. Loomis,1994 This volume conveys the important facts and concepts business professionals need in order to understand the role of object databases in today s rapidly evolving computing environments Covering all aspects of the essentials of object database technology without requiring advanced technical knowledge this book makes an excellent introductory reference for database experts and non experts alike

## **Data Types And Persistence** Book Review: Unveiling the Magic of Language

In a digital era where connections and knowledge reign supreme, the enchanting power of language has become more apparent than ever. Its ability to stir emotions, provoke thought, and instigate transformation is truly remarkable. This extraordinary book, aptly titled "**Data Types And Persistence**," published by a very acclaimed author, immerses readers in a captivating exploration of the significance of language and its profound impact on our existence. Throughout this critique, we shall delve into the book's central themes, evaluate its unique writing style, and assess its overall influence on its readership.

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