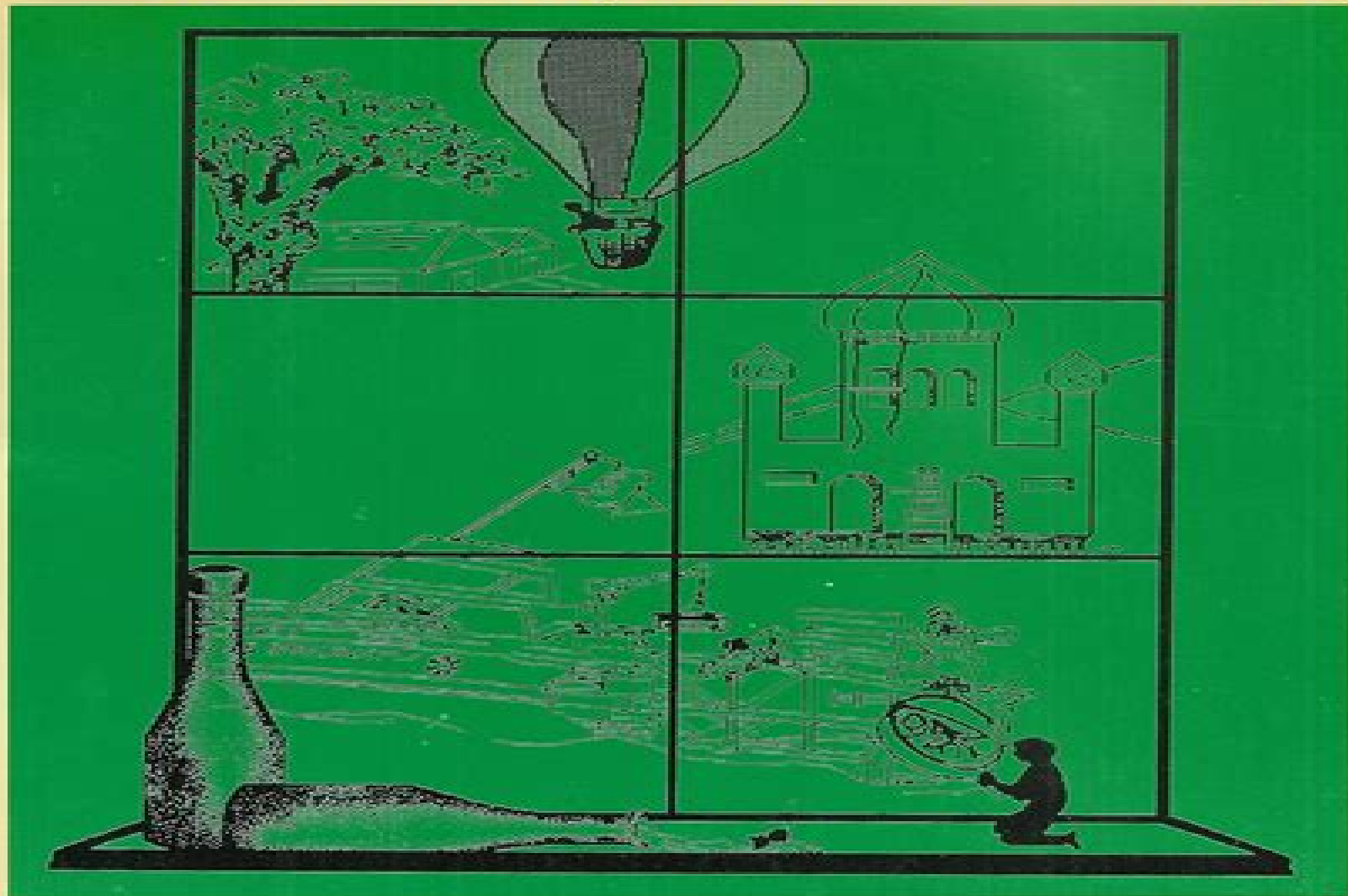


SMALLTALK-80

BITS OF HISTORY, WORDS OF ADVICE



Glenn Krasner

Smalltalk 80 Bits Of History Words Of Advice

Karel Driesen



Smalltalk 80 Bits Of History Words Of Advice:

Smalltalk-80 Glenn Krasner,1983 Focuses on Implementation of System Provides Documentation Covers General Software Engineering *Smalltalk, Objects, and Design* Chamond Liu,2000 More than a guide to the Smalltalk language

Efficient Polymorphic Calls Karel Driesen,2012-12-06 The implementation of object oriented languages has been an active topic of research since the 1960s when the first Simula compiler was written The topic received renewed interest in the early 1980s with the growing popularity of object oriented programming languages such as c and Smalltalk and got another boost with the advent of Java Polymorphic calls are at the heart of object oriented languages and even the first implementation of Simula 67 contained their classic implementation via virtual function tables In fact virtual function tables predate even Simula for example Ivan Sutherland s Sketchpad drawing editor employed very similar structures in 1960 Similarly during the 1970s and 1980s the implementers of Smalltalk systems spent considerable efforts on implementing polymorphic calls for this dynamically typed language where virtual function tables could not be used Given this long history of research into the implementation of polymorphic calls and the relatively mature standing it achieved over time why one might ask should there be a new book in this field The answer is simple Both software and hardware have changed considerably in recent years to the point where many assumptions underlying the original work in this field are no longer true In particular virtual function tables are no longer sufficient to implement polymorphic calls even for statically typed languages for example Java s interface calls cannot be implemented this way Furthermore today s processors are deeply pipelined and can execute instructions out of order making it difficult to predict the execution time of even simple code sequences

The Design and Implementation of ConcurrentSmalltalk Yasuhiko Yokote,1990 This book focuses on object oriented concurrent computing which can be considered a model of concurrent programming and proposes a new programming language ConcurrentSmalltalk which is based on object oriented concurrent computing The book also shows the efficiency of object oriented concurrent computing through the design implementation and evaluation of ConcurrentSmalltalk ConcurrentSmalltalk is designed to be upwardly compatible with Smalltalk 80 In the book the ConcurrentSmalltalk object model is first proposed Next issues which arise from maintaining compatibility with Smalltalk 80 are discussed Finally the ConcurrentSmalltalk virtual machine which executes the ConcurrentSmalltalk programs is proposed

Fiber Optics Illustrated Dictionary J.K. Petersen,2018-10-03 Within a few short years fiber optics has skyrocketed from an interesting laboratory experiment to a billion dollar industry But with such meteoric growth and recent exciting advances even references published less than five years ago are already out of date The Fiber Optics Illustrated Dictionary fills a gap in the literature by providing instructors hobbyists and top level engineers with an accessible current reference From the author of the best selling Telecommunications Illustrated Dictionary this comprehensive reference includes fundamental physics basic technical information for fiber splicing installation maintenance and repair and follow up

information for communications and other professionals using fiber optic components Well balanced well researched and extensively cross referenced it also includes hundreds of photographs charts and diagrams that clarify the more complex ideas and put simpler ideas into their applications context Fiber optics is a vibrant field not just in terms of its growth and increasing sophistication but also in terms of the people places and details that make up this challenging and rewarding industry In addition to furnishing an authoritative up to date resource for relevant industry definitions this dictionary introduces many exciting recent applications as well as hinting at emerging future technologies ECOOP '87. European Conference on Object-Oriented Programming Jean Bezivin, Jean-Marie Hullot, Pierre Cointe, Henry Lieberman, 2007-03-06 In October 1983 an informal meeting was organized in Le Cap d Agde with the help of the BIGRE bulletin Sixty people turned out to hear more than ten presentations on object oriented programming More important was their unanimous demand for other more structured encounters So about one year later the Object group was created by AFCET A second workshop was organized in Brest and again one year later in Paris each time showing increased attendance and interest The success of these meetings and the fact that similar activities were taking place in other European countries especially Great Britain and Germany led to the idea of an annual European Conference providing a forum for theorists and practitioners interested in the object oriented programming paradigm It is impossible to acknowledge here all the people and organizations that welcomed with great enthusiasm the birth of the ECOOP conference and contributed to its organization More than a hundred submissions were received and the program committee had the unpleasant task of turning down many valuable contributions We hope however that the selection of papers for ECOOP 87 emphasizes the fundamental issues and problems of object oriented programming and will point toward interesting future research directions **Engineering a Compiler** Keith D. Cooper, Linda Torczon, 2011-01-18 This entirely revised second edition of Engineering a Compiler is full of technical updates and new material covering the latest developments in compiler technology In this comprehensive text you will learn important techniques for constructing a modern compiler Leading educators and researchers Keith Cooper and Linda Torczon combine basic principles with pragmatic insights from their experience building state of the art compilers They will help you fully understand important techniques such as compilation of imperative and object oriented languages construction of static single assignment forms instruction scheduling and graph coloring register allocation In depth treatment of algorithms and techniques used in the front end of a modern compiler Focus on code optimization and code generation the primary areas of recent research and development Improvements in presentation including conceptual overviews for each chapter summaries and review questions for sections and prominent placement of definitions for new terms Examples drawn from several different programming languages Beautiful Architecture Diomidis Spinellis, Georgios Gousios, 2009-01-15 What are the ingredients of robust elegant flexible and maintainable software architecture Beautiful Architecture answers this question through a collection of intriguing essays from more than a dozen of today s leading software designers and

architects In each essay contributors present a notable software architecture and analyze what makes it innovative and ideal for its purpose Some of the engineers in this book reveal how they developed a specific project including decisions they faced and tradeoffs they made Others take a step back to investigate how certain architectural aspects have influenced computing as a whole With this book you ll discover How Facebook s architecture is the basis for a data centric application ecosystem The effect of Xen s well designed architecture on the way operating systems evolve How community processes within the KDE project help software architectures evolve from rough sketches to beautiful systems How creeping featurism has helped GNU Emacs gain unanticipated functionality The magic behind the Jikes RVM self optimizable self hosting runtime Design choices and building blocks that made Tandem the choice platform in high availability environments for over two decades Differences and similarities between object oriented and functional architectural views How architectures can affect the software s evolution and the developers engagement Go behind the scenes to learn what it takes to design elegant software architecture and how it can shape the way you approach your own projects with Beautiful Architecture **Watch what I Do**

Allen Cypher, Daniel Conrad Halbert, 1993 Programming by Demonstration is a method that allows end users to create customize and extend programs by demonstrating what the program should do *A VLSI Architecture for Concurrent Data Structures* J. W. Dally, 2012-12-06 Concurrent data structures simplify the development of concurrent programs by encapsulating commonly used mechanisms for synchronization and communication into data structures This thesis develops a notation for describing concurrent data structures presents examples of concurrent data structures and describes an architecture to support concurrent data structures Concurrent Smalltalk CST a derivative of Smalltalk 80 with extensions for concurrency is developed to describe concurrent data structures CST allows the programmer to specify objects that are distributed over the nodes of a concurrent computer These distributed objects have many constituent objects and thus can process many messages simultaneously They are the foundation upon which concurrent data structures are built The balanced cube is a concurrent data structure for ordered sets The set is distributed by a balanced recursive partition that maps to the subcubes of a binary 7lrcube using a Gray code A search algorithm VW search based on the distance properties of the Gray code searches a balanced cube in $O(\log N)$ time Because it does not have the root bottleneck that limits all tree based data structures to $O(1)$ concurrency the balanced cube achieves $O(N)$ concurrency Considering graphs as concurrent data structures graph algorithms are presented for the shortest path problem the max flow problem and graph partitioning These algorithms introduce new synchronization techniques to achieve better performance than existing algorithms

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