

An improved XML syntax for the Java programming language

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Abstract—The benefits of using XML to encode programming language's source code have already been identified and XML syntaxes developed for this purpose. However, there is an absence of a systematic identification of the requirements that need to be met in order to fully leverage the potentials of XML and the key concept of the abstract syntax is being misinterpreted. Due to this the syntaxes have various deficiencies, a number of which are common to many of them. This paper clarifies the concepts, identifies these deficiencies, and proposes a new syntax for the Java programming language which avoids them. The superiority of the new syntax is demonstrated by comparing it with two of the most relevant publicly available syntaxes with the same purpose.

I. INTRODUCTION

The benefits of using XML to encode programming languages' source code have already been identified [1], [2] and XML syntaxes developed for this purpose [3], [4], [5]. However, there is a lack of a systematic approach to the identification of more precise goals the syntax should achieve in order to fully leverage the potentials of this approach. Particularly, it appears that the central concept in the application of XML to source code, that of the abstract syntax, is not being interpreted properly.

In order to explore this subject, a research project named *Jezix* was started. The main goal of the project was the development of an XML syntax for the Java programming language that is based on the correct treatment of the concept of the abstract syntax, which allows it to optimally leverage the identified potentials of XML. The results of the research were validated by demonstrating the proposed syntax's superiority over existing syntaxes. This was achieved by solving several code analysis problems for the proposed and two of the most relevant existing syntaxes and then comparing the amount of effort needed and the properties of the resulting query code.

The next section gives an overview of source code and XML. It repeats some well-known results of the formal language theory, but also clarifies important concepts and defines some terms used later. Section III presents the two key benefits of using XML for source code. Section IV reflects on the effects of using XML on the quality of the machine-to-human interface. Section V presents the most sensitive requirements the XML syntax has to meet. Section VI gives a critical overview of other existing syntaxes and identifies the common root of many of their deficiencies. Section VII briefly introduces the proposed syntax and proceeds to the presentation of the

results of its comparison with the two other syntaxes. Finally, the closing section summarizes the achievements and conclusions of the *Jezix* project.

II. OVERVIEW OF SOURCE CODE AND XML

A programming language has two important components:

- 1) A set of basic concepts and a syntax (called the *abstract syntax*) for combining them into a description of the desired behaviour of the program. The description has the form of a tree, called the *abstract syntax tree* (AST).
- 2) An alphabet of characters and a syntax (called the *concrete syntax*) for combining them into a textual encoding of the AST—the source code.

The text of the source code, then, is structured according to the concrete syntax, whose rules are usually separated into two layers for easier formalization, called the *lexical* and *syntactic* grammars. The compiling process begins with the *lexing* of the source code text into a sequence of *tokens* (character strings) according to the lexical grammar. The token sequence is then *parsed* according to the syntactic grammar and the result is a tree, called the *parse tree*, or the *concrete syntax tree* (CST). The syntactic grammar is formally a *context-free grammar* (CFG [6]), usually defined in the *Extended Backus-Naur Form* (EBNF). The rules of the grammar have to be such that each valid token sequence can be parsed into exactly one CST. Otherwise the grammar would be *ambiguous*: it would allow different interpretations of the same source code text.

The AST is produced by processing the information found in the CST and possibly additional information from the broader environment, such as other code modules. The program description it represents can be regarded as the *meaning* of its source code document. The abstract syntax contains additional, higher-level constraints so that only a subset of valid CSTs produce a valid AST. In a typical programming language specification these constraints are only described in plain English, without precise formalization. The abstract syntax also has an important formal property that sets it apart from the concrete syntax: since it is never used for parsing, the idea of ambiguity as defined above—and thus the associated requirement—becomes irrelevant.

Although it can be argued what the essence of XML is, for the purpose of this paper it will be regarded as

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programmers understand their own tasks and how they fit together with those of their colleagues to achieve the overall goal is a major concern. Without that understanding it would be practically impossible to realise the commercial potential of our present day computing hardware. That programming has been able to keep pace with the formidable advances in hardware is due to the similarly formidable advances in the principles for design construction and organisation of programs. The efficacy of these methods and principles speaks for itself: computer technology is all pervasive but even more telling is that they are beginning to feed back and influence hardware design as well. The study of such methods is called programming methodology whose topics range over system and domain modelling, concurrency, object orientation, program specification and validation. That is the theme of this collection.

Software Testing, *Research Anthology on Agile Software, Software Development, and Testing* Management Association, Information Resources, 2021-11-26. Software development continues to be an ever evolving field as organizations require new and innovative programs that can be implemented to make processes more efficient, productive and cost effective. Agile practices particularly have shown great benefits for improving the effectiveness of software development and its maintenance due to their ability to adapt to change. It is integral to remain up to date with the most emerging tactics and techniques involved in the development of new and innovative software. The Research Anthology on Agile Software Development and Testing is a comprehensive resource on the emerging trends of software development and testing. This text discusses the newest developments in agile software and its usage spanning multiple industries. Featuring a collection of insights from diverse authors, this research anthology offers international perspectives on agile software. Covering topics such as global software engineering, knowledge management and product development, this comprehensive resource is valuable to software developers, software engineers, computer engineers, IT directors, students, managers, faculty, researchers and academicians.

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Sixth International Conference on Information Technology, **Formal Approaches to Software Testing** Alexandre Petrenko, 2004-01-28. This book constitutes the thoroughly refereed post proceedings of the Third International Workshop on Formal Approaches to Testing of Software FATES 2003 held in Montreal, Quebec, Canada on October 6th 2003. The 18 revised full papers presented were carefully selected from 43 submissions during two rounds of reviewing and improvement. The papers are organized in topical sections on program testing and analysis, test theory and test derivation, algorithms and test methods and test tools.

Formal Approaches to Software Testing Andreas Ulrich, 2004-01-24. Formal methods provide system designers with the possibility to analyze system models and reason about them with mathematical precision and rigor. The use of formal methods is not restricted to the early development phases of a system though. The different testing phases can also benefit from them to ease the production and application of effective and efficient tests. Many still regard formal methods and testing as an odd

combination Formal methods traditionally aim at verifying and proving correctness a typical academic activity while testing shows only the presence of errors this is what practitioners do Nonetheless there is an increasing interest in the use of formal methods in software testing It is expected that formal approaches are about to make a major impact on emerging testing technologies and practices Testing proves to be a good starting point for introducing formal methods in the software development process This volume contains the papers presented at the 3rd Workshop on Formal Approaches to Testing of Software FATES 2003 that was in a liation with the IEEE ACM Conference on Automated Software Engineering ASE 2003 This year FATES received 43 submissions Each submission was reviewed by at least three independent reviewers from the program committee with the help of ditional reviewers Based on their evaluations 18 papers submitted by authors from 13 different countries were selected for presentation at the workshop *Fundamental Approaches to Software Engineering* Leen Lambers,Sebastián Uchitel,2023-04-19 This open access book constitutes the proceedings of the 26th International Conference on Fundamental Approaches to Software Engineering FASE 2023 which was held during April 22 27 2023 in Paris France as part of the European Joint Conferences on Theory and Practice of Software ETAPS 2023 The 12 regular papers presented in this volume were carefully reviewed and selected from 50 submissions The proceedings also contain 2 tool papers 2 NIER papers and 2 competition papers from the Test Comp Competition The papers deal with the foundations on which software engineering is built including topics like software engineering as an engineering discipline requirements engineering software architectures software quality model driven development software processes software evolution AI based software engineering and the specification design and implementation of particular classes of systems such as self adaptive collaborative AI embedded distributed mobile pervasive cyber physical or service oriented applications

Programming Languages Fernando Castor,Yu David Liu,2016-09-17 This book constitutes the proceedings of the 20th Brazilian Symposium on Programing Languages SBLP 2016 held in Maring Brazil in September 2016 The 12 papers presented in this volume were carefully reviewed and selected from 26 submissions They deal with fundamental principles and innovations in the design and implementation of programming languages and systems *Integrated Formal Methods* Paula Herber,Anton Wijs,2023-11-10 This volume LNCS 14300 constitutes the refereed proceedings of the 18th International Conference IFM 2023 in November 2023 held in Leiden The Netherlands The 16 full papers presented together with 2 short papers were carefully reviewed and selected from 51 submissions The conference focuses on all aspects of the design of integrated techniques including language design verification and validation automated tool support and the use of such techniques in software engineering practice *Abstract State Machines 2003. Advances in Theory and Practice* Egon Börger,Angelo Gargantini,Elvinia Riccobene,2003-02-21 Environmental chemistry is a new fast developing science aimed at deciphering fundamental mechanisms ruling the behaviour of pollutants in ecosystems Applying this knowledge to current environmental issues leads to the remediation of environmental media and to new low energy low emission sustainable

processes This book describes the state of the art advances regarding the pollution of water soils atmosphere food and living organisms by toxic metals fossil fuels pesticides and other organic pollutants Furthermore the eco toxicology section presents novel bio assays to assess the toxicity of various pollutants such as dioxins and endocrine disrupters within complex media The green chemistry section highlights novel chemical reactions based upon environmentally friendly conditions The analytical chemistry section describes very sensitive methods which trace the fate of pollutants in complex ecosystems

Leveraging Applications of Formal Methods, Verification and Validation Tiziana Margaria, Bernhard Steffen, 2012-09-26 The two volume set LNCS 7609 and 7610 constitutes the thoroughly refereed proceedings of the 5th International Symposium on Leveraging Applications of Formal Methods Verification and Validation held in Heraklion Crete Greece in October 2012 The two volumes contain papers presented in the topical sections on adaptable and evolving software for eternal systems approaches for mastering change runtime verification the application perspective model based testing and model inference learning techniques for software verification and validation LearnLib tutorial from finite automata to register interface programs RERS grey box challenge 2012 Linux driver verification bioscientific data processing and modeling process and data integration in the networked healthcare timing constraints theory meets practice formal methods for the development and certification of X by wire control systems quantitative modelling and analysis software aspects of robotic systems process oriented geoinformation systems and applications handling heterogeneity in formal development of HW and SW Systems **ECOOP 2008 - Object-Oriented Programming** Jan Vitek, 2008-07-01 It is a pleasure to present the proceedings of the 22nd European Conference on Object Oriented Programming ECOOP 2008 held in Paphos Cyprus The conference continues to serve a broad object oriented community with a technical program spanning theory and practice and a healthy mix of industrial and academic participants This year a strong workshop and tutorial program complemented the main technical track We had 13 workshops and 8 tutorials as well as the co located Dynamic Language Symposium DLS Finally the program was rounded out with a keynote by Rachid Guerraoui and a banquet speech by James Noble As in previous years two Dahl Nygaard awards were selected by AITO and for the first time the ECOOP Program Committee gave a best paper award The proceedings include 27 papers selected from 138 submissions The papers were reviewed in a single blind process with three to five reviews per paper Preliminary versions of the reviews were made available to the authors a week before the PC meeting to allow for short 500 words or less author responses The responses were discussed at the PC meeting and were instrumental in reaching decisions The PC discussions followed Oscar Nierstrasz Champion pattern PC papers had five reviews and were held at a higher standard **Generative Systems and Intelligent Tutoring Systems** Sabine Graf, Angelos Markos, 2025-07-28 This book constitutes the refereed proceedings of the 21st International Conference on Intelligent Tutoring Systems ITS 2025 held in Alexandroupolis Greece during June 2-6 2025 The 21 full papers 27 short papers and 5 posters included in this book were carefully reviewed and selected from 67 submissions The papers are

organized in the following topical conference tracks Part I Generative Tutoring Systems The goal of this part is to show how new techniques inspired by artificial intelligence AI and new methods in education can improve learning teaching and generate the capacity for knowledge acquisition and much more Part II Application areas environments and techniques for AI systems This part shows the progress of research investigating the different application areas such as education health techniques such as neural networks data mining natural language processing and environments such as games virtual reality cognitive robots for effective AI systems

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Runtime Verification Yliès Falcone,César Sánchez,2016-09-19 This book constitutes the refereed proceedings of the 16th International Conference on Runtime Verification RV 2016 held in Madrid Spain in September 2016 The 18 revised full papers presented together with 4 short papers 3 tool papers 2 tool demonstration papers and 5 tutorials were carefully reviewed and selected from 72 submissions The RV conference is concerned with all aspects of monitoring and analysis of hardware software and more general system executions Runtime verification techniques are lightweight techniques to assess correctness reliability and robustness these techniques are significantly more powerful and versatile than conventional testing and more practical than exhaustive formal verification

Designing, Engineering, and Analyzing Reliable and Efficient Software Singh, Hardeep,2013-02-28 Due to the role of software systems in safety critical applications and in the satisfaction of customers and organizations the development of efficient software engineering is essential Designing Engineering and Analyzing Reliable and Efficient Software discusses and analyzes various designs systems and advancements in software engineering With its coverage on the integration of mathematics computer science and practices in engineering this book highlights the importance of ensuring and maintaining reliable software and is an essential resource for practitioners professors and students in these fields of study

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