

# The Object-Z Specification Language

Graeme Smith

# Object Z Specification Language

**Qingsheng Zhu**

## **Object Z Specification Language:**

*The Object-Z Specification Language* Graeme Smith, 2012-11-02 Object Z is an object oriented extension of the formal specification language Z. It adds to Z notions of classes and objects and inheritance and polymorphism. By extending Z's semantic basis it enables the specification of systems as collections of independent objects in which self and mutual referencing are possible. The Object Z Specification Language presents a comprehensive description of Object Z including discussions of semantic issues, definitions of all language constructs, type rules and other rules of usage, specification guidelines and a full concrete syntax. It will enable you to confidently construct Object Z specifications and is intended as a reference manual to keep by your side as you use and learn to use Object Z. The Object Z Specification Language is suitable as a textbook or as a secondary text for a graduate level course and as a reference for researchers and practitioners in industry.

**The Object-Z Specification Language** Graeme Smith, 2012-12-06 Object Z is an object oriented extension of the formal specification language Z. It adds to Z notions of classes and objects and inheritance and polymorphism. By extending Z's semantic basis it enables the specification of systems as collections of independent objects in which self and mutual referencing are possible. The Object Z Specification Language presents a comprehensive description of Object Z including discussions of semantic issues, definitions of all language constructs, type rules and other rules of usage, specification guidelines and a full concrete syntax. It will enable you to confidently construct Object Z specifications and is intended as a reference manual to keep by your side as you use and learn to use Object Z. The Object Z Specification Language is suitable as a textbook or as a secondary text for a graduate level course and as a reference for researchers and practitioners in industry.

**The Object-Z Specification Language** Roger Duke, Paul King, Gordon Rose, 1991 *ZUM '98: The Z Formal Specification Notation* Jonathan P. Bowen, Andreas Fett, Michael G. Hinchey, 1998-09-16 1 In a number of recent presentations most notably at FME 96 one of the foremost scientists in the field of formal methods, C A R Hoare, has highlighted the fact that formal methods are not the only technique for producing reliable software. This seems to have caused some controversy not least amongst formal methods practitioners. How can one of the founding fathers of formal methods seemingly denounce the field of research after over a quarter of a century of support? This is a question that has been posed recently by some formal methods skeptics. However, Prof Hoare has not abandoned formal methods. He is reiterating 2, albeit more radically his 1987 view that more than one tool and notation will be required in the practical industrial development of large scale complex computer systems and not all of these tools and notations will be or even need be formal in nature. Formal methods are not a solution but rather one of a selection of techniques that have proven to be useful in the development of reliable complex systems and to result in hardware and software systems that can be produced on time and within a budget while satisfying the stated requirements. After almost three decades the time has come to view formal methods in the context of overall industrial scale system development and their relationship to other techniques and methods.

We should no longer consider the issue of whether we are pro formal or anti formal but rather the degree of formality if any that we need to support in system development. This is a goal of ZUM 98 the 11th International Conference of Z Users held for the first time within continental Europe in the city of Berlin Germany *ZUM'97: The Z Formal Specification Notation* Jonathan P. Bowen, Michael G. Hinckley, David Till, 1997-03-20. This book constitutes the refereed proceedings of the 10th International Conference of Z Users ZUM 97 held in Reading UK in April 1997. The volume presents 18 revised full papers together with three invited presentations by internationally leading experts. The papers are organized into topical sections on real time systems tools logic system development reactive systems refinement and applications. Also a select Z bibliography by Jonathan Bowen is added. All in all the book competently reports the state of the art in research and advanced applications of the Z notation.

**ZB 2000: Formal Specification and Development in Z and B** Jonathan P. Bowen, Steve Dunne, Andrew Galloway, Steve King, 2000-08-16. This book constitutes the refereed proceedings of the First International Conference of B and Z Users ZB 2000 held in York UK in August September 2000. The 25 revised full papers presented together with four invited contributions were carefully reviewed and selected for inclusion in the book. The book documents the recent advances for the Z formal specification notion and for the B method the full scope ranging from foundational and theoretical issues to advanced applications tools and case studies is covered.

*Proceedings Of The 11th Joint International Computer Conference: Jicc 2005* Qingsheng Zhu, 2005-10-07. This book presents the latest techniques algorithms research

accomplishments and trend in computer science and engineering. It collects together 222 peer reviewed papers presented at the 11th Joint International Computer Conference. The theme of this year is IT Intellectual Capital for the Betterment of Human Life. The articles in this book cover a wide range of active and interesting areas such as Digital Entertainment Grid Computing Embedded System Web Service and Knowledge Engineering. This book serves as a good reference not only for researchers but also for graduate students in corresponding fields. The proceedings have been selected for coverage in Index to Scientific Technical Proceedings ISTP CDROM version ISI Proceedings CC Proceedings Engineering Physical Sciences

[Handbook of Research on Software Engineering and Productivity Technologies: Implications of Globalization](#) Ramachandran, Muthu, de Carvalho, Rogério Atem, 2009-08-31. This book provides integrated chapters on software engineering and enterprise systems focusing on parts integrating requirements engineering software engineering process and frameworks productivity technologies and enterprise systems. Provided by publisher **TOZE, a Graphical Editor for the Object-Z Specification Language with Syntax and Type Checking Capabilities** Tim Parker, 2008. This manuscript describes the development of a tool that allows users to create and edit formal specifications in the Object Z language using a graphical user interface. The tool enables users to enter Object Z specifications validate correctness of the syntax and check for type inconsistencies. The vision for the editor was to make it work similar to a WYSIWYG word processor like Word where the user is able to work with the content as it would appear on a printed page. Unlike other tools for Object Z TOZE provides

interactive facilities to check syntax and types within the tool without the need to leave the editor and use other applications Basic file management functionalities such as saving and opening specifications as well as more advanced features such as exporting the specification as a JPEG image or LaTeX document are provided

### **ZUM ... the Z Formal Specification**

**Notation** ,1998 Technology of Object-oriented Languages and Systems : TOOLS 23 Raimund K. Ege,Madhu

Singh,Bertrand Meyer,1998 This volume provides a wealth of new information about the latest advances in the O O field From analysis to environments from frameworks to concurrency from databases to distribution it touches on all aspects of the technology and will provide managers and developers with an up to date view of object orientation and its future developments BOOK JACKET Title Summary field provided by Blackwell North America Inc All Rights Reserved

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Meyer,1998 This collection of papers examines the field of database and information systems It includes topics such as distribution and concurrency application design patterns and frameworks Java formal aspects of OO modelling languages and measurement database

*The Lifetime of an Object in the Object-z Software Specification Language* David L. Sims,1992

### **Technology of Object-oriented Languages & Systems ,1990 Technology of Object-Oriented Languages and**

**Systems** Jean Bézivin,Bertrand Meyer,1991 This conference proceeding provides a comprehensive look into the state of the object oriented art Based on the contributions to TOOLS 4 it covers every major aspect of the technology As the major international forum devoted entirely to the practical applications of object oriented technology this guide reveals the latest practical developments in the hottest area in the software field It describes industrial applications leading to actual products results of increased practical experience with O O methods and tools even from those still at the prototype stage and offers a deeper appreciation the problems involved The Tools 4 meeting was held in Paris in March 1991

### **Object-oriented**

**Specification Case Studies** Kevin Lano,K. Lano,H. Haughton,1994 Object orientation and formal methods are widely

regarded as two fields with significant potential for influence on the future of software engineering This book aims to provide an introduction to the rapidly growing area at the intersection of these fields formal approaches to system specification using object oriented techniques

Formal Object-oriented Specification Using Object-Z Roger Duke,Gordon Rose,2000 This text

presents techniques for the precise description of software or systems using the object oriented formal specification language Object Z It includes numerous and varied case studies to illustrate the techniques and language of object oriented formal specification and illustrates the key role of formal specification in formal verification and in implementation Although primarily intended for safety critical or complex software development formal specification also has wide application in hardware or general system description

*2001 IEEE Symposium on Human-Centric Computing ,2001* This volume contains the conference proceedings from the 2001 Human Centric Computing Languages and Environments

### **Refinement in Z and Object-Z** John Derrick,Eerke Boiten,2001 Refinement is one of the cornerstones of the formal approach to software

engineering and its use in various domains has led to research on new applications and generalisation. This book brings together this research in one volume with the addition of examples drawn from different application areas. It covers four main themes: data refinement and its application to Z generalisations of refinement that change the interface and atomicity of operations refinement in Object Z and modelling state and behaviour by combining Object Z with CSP Refinement in Z and Object Z Foundations and Advanced Applications provides an overview of recent research for academic and industrial researchers, lecturers, teaching formal specification and development, industrial practitioners using formal methods in their work and postgraduate and advanced undergraduate students. **Algebraic Methodology and Software Technology**, 2004

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