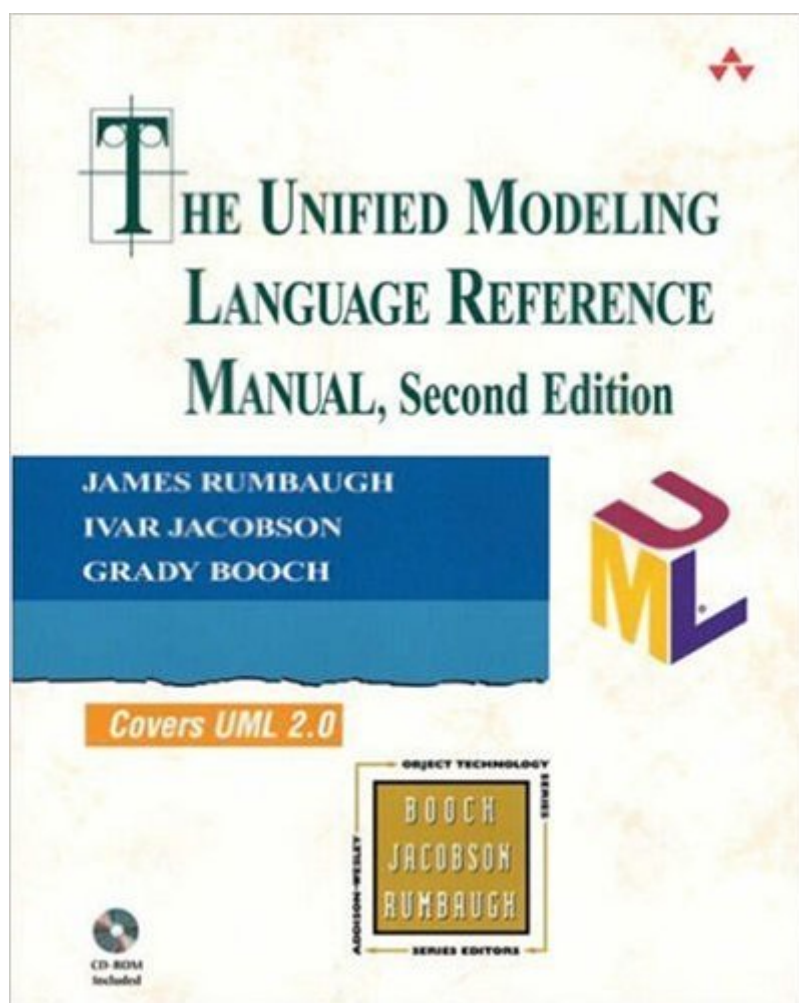


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# The Unified Modeling Language Reference Manual (2nd Edition) (The Addison-Wesley Object Technology Series)



## Synopsis

“If you are a serious user of UML, there is no other book quite like this one. I have been involved with the UML specification process for some time, but I still found myself learning things while reading through this book” especially on the changes and new capabilities that have come with UML. • Ed Seidewitz, Chief Architect, IntelliData Technologies Corporation

The latest version of the Unified Modeling Language “UML 2.0” has increased its capabilities as the standard notation for modeling software-intensive systems. Like most standards documents, however, the official UML specification is difficult to read and navigate. In addition, UML 2.0 is far more complex than previous versions, making a thorough reference book more essential than ever.

In this significantly updated and expanded edition of the definitive reference to the standard, James Rumbaugh, Ivar Jacobson, and Grady Booch “the UML’s creators” clearly and completely describe UML concepts, including major revisions to sequence diagrams, activity models, state machines, components, internal structure of classes and components, and profiles. Whether you are capturing requirements, developing software architectures, designing implementations, or trying to understand existing systems, this is the book for you. Highlights include:

- Alphabetical dictionary of articles covering every UML concept
- Integrated summary of UML concepts by diagram type
- Two-color diagrams with extensive annotations in blue
- Thorough coverage of both semantics and notation, separated in each article for easy reference
- Further explanations of concepts whose meaning or purpose is obscure in the original specifications
- Discussion sections offering usage advice and additional insight into tricky concepts
- Notation summary, with references to individual articles
- A hyperlinked version of the book in Adobe Reader format on CD-ROM, an excellent resource for browsing or searching the text for specific information
- An enhanced online index available on the book’s web site allowing readers to quickly and easily search the entire text for specific topics

The result is an indispensable resource for anyone who needs to understand the inner workings of the industry standard modeling language.

## Book Information

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## Customer Reviews

Let's be clear - this book is a reference manual, not a tutorial. Don't use this book to learn what the UML is all about. But when you want to answer a question about how to show something or what something means, then this book is invaluable. It's my first reference choice because, unlike the specification, it is written with explanation in mind. I turn to it more than any other UML book and so far I've found that when this can't answer my question, it's because the UML designers haven't thought about it yet. So to sum up: if you use the UML seriously, make sure you have a copy handy.

This book is by no means an introductory text. It assumes you already know UML. I do not think it would be of any value to managers or students. It is also of little value to developers that are happy downloading the 808 page UML specification and crunching through it. For the power UML engineer that needs to refer to the UML constructs, elements and semantics and discover new ones quickly when designing systems, this book will come in very handy indeed. Unlike other (valuable) UML books, this one will come down from the bookshelf often.

This book is one in a series of three by the three amigos. It is certainly the most authoritative and accurate of all three (the other two being very fuzzy in places). The book consists of the following major sections: I: Background (some history) II: UML concepts (static, use case, statechart and other 'views') III: Reference This book is pure syntax and can answer most of the questions that you might have about UML syntax. However, this book is not for beginners because it assumes (in my opinion) that you have applied UML to real-life situations. I find the book to be well-written (even if it is fairly dry) and compares favourably with other books in the UML series. There are different ways that you can use this book. First, you can consult it to check if you are using the correct UML syntax in your applications. Second, you can use it to determine what you have still to learn in UML (for example, activity diagrams, statecharts). This book should complement the other, more application-specific UML books. For example, it could be seen as a follow-up of Fowler's somewhat

outdated UML Primer. It would have been a good idea if the authors had included a complete test case showing how all the specific 'views' are documented and how they fit together. UML has about 11 different views and which one to use and when will be a major undertaking if you are embarking on a first project. This book will be outdated as soon as the new UML 2.0 specification is ready. Do the authors have plans for a new version of their book "UML Reference 2.0"?

This book is a comprehensive, well-written reference that stays by my side whenever I'm modeling. The accompanying CD-Rom has the book's text stored as a PDF file and is arguably even more useful because it is hyperlinked. A few other reviewers disagree, but their complaints suggest a misunderstanding of the book's intent. This book is a "Reference Manual." It is not a tutorial and does not cover tangential topics (like good/bad OOAD practices). Think of it as a UML encyclopedia. If you want a concise description of every UML diagram and notation then this is the book you want.

This is the authoritative reference manual to UML, written by the creators of UML. The reference is complete (at least as far as I can tell). A CD-ROM is included with the book. This CD-ROM has the complete book as a PDF file, with extensive cross references (as links). I usually hate to read lengthy material on the computer screen and I usually prefer a (paper) book, but the PDF file on the CD-ROM is really great. The cross references makes the PDF file easier to use than the book. (The "standard" document on UML from OMG is also included on the CD-ROM). The book is written in a formal and boring style. Another thing that makes the book less enjoyable to read is the layout of the text. The lines are too long, and the spacing between the lines is inadequate. The main part of the book is the alphabetically ordered reference. Before the reference part, the book has a short (85 pages) overview/introduction to UML. When I read the paper book I could not understand who would benefit from this text: the text is too harsh for the novice, but lacks all the details an advanced user would be looking for. However, on the cross referenced CD-ROM this text turned out to be a valuable part. The book is a very unbiased reference. This is also a weak side of the book. You will not get any advice about good practices, or useful ways to apply UML for different design organizations.

I was expecting a dry through explanation of notation. This book is not that at all. This was by design though. The book attempts to cover all of the important topics. To get there, it takes an unusual approach. There are a few introduction chapters as might be expected. Part 2 of the book

has one chapter per view. In each chapter, the view is covered both notation-wise and discussion-wise. Part 3 was the biggest surprise for me. It is an "encyclopedia of terms." This section is worthwhile even if you are an OO person who doesn't care about diagramming with UML. It gives a definition for each term and frequently the Semantics, Notation and Discussion associated with it. However, this book is a rough read. I opened the book randomly and found the following as an example: "Branch: An element in a state machine in which a single trigger leads to more than one possible outcome, each with its own guard condition." After reading it a second time carefully along with looking up what a "guard condition" was, I understood. The point though is that the definitions are rigorous, but hard to digest on a quick read. The book is worth buying for your reference library for the encyclopedia section alone. I will personally be using it when I have a situation to model and know the term but not the UML syntax. The encyclopedia will lead me to the syntax.

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