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The Art of the Meta-Object Protocol is useful for the advanced CLOS user as

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well as for anyone interested in object-oriented programming and language design. From the Back Cover This book presents a new approach to programming language design, which resolves fundamental tensions between elegance and efficiency.

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Gregor Kiczales, Jim ...

The Art of the Metaobject Protocol (AMOP) is a 1991 book by Gregor Kiczales, Jim des Rivieres, and Daniel G. Bobrow (all three working for Xerox PARC) on the subject of metaobject protocol .

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Kiczales, des Rivières, and Bobrow show that the "art of metaobject protocol design" lies in creating a synthetic combination of object-oriented and reflective techniques that can be applied under existing software engineering considerations to yield a new approach to programming language design that

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meets a broad set of design criteria.

The Art of the Metaobject Protocol | The MIT Press

The Art of the Metaobject Protocol. The
Art of the Metaobject Protocol Gregor
Kiczales, Jim des Rivieres, and Daniel G.
Bobrow The MIT Press Cambridge,
Massachusetts London, England.

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Acknowledgments. The work described here is synthetic in nature, bringing together techniques and insights from several branches of computer science.

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The Art of the Metaobject Protocol. The authors introduce this new approach to

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programming language design, describe its evolution and design principles, and present a formal specification of a metaobject protocol for CLOS. The CLOS metaobject protocol is an elegant, high-performance extension to the CommonLisp Object System. The authors, who developed the metaobject protocol and who were among the group

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that developed CLOS, introduce this new approach to programming language design ...

The Art of the Metaobject Protocol : Gregor Kiczales ...

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ENSURE-CLASS-USING-CLASS: Part 2. In Part 1 of this accidental series, I provided a first draft of an implementation of ensure-class-using-metaclass. It relied on capturing a primary method invocation for ensure-class-using-class in a closure and passing that to ensure-class-using-metaclass. Unsurprisingly, the first

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version had some issues.

The Art of the Metaobject Protocol, and ENSURE-CLASS-USING ...

In The Art of the Metaobject Protocol, we are presented with the basic approach to metaobject protocols used by the authors, and then we are given a particular metaobject protocol for CLOS.

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CLOS is different from many other object-oriented languages in specifying that every Lisp object be an instance of some class.

A Review of The Art of the Metaobject Protocol

The CLOS metaobject protocol is an elegant, high-performance extension to

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the CommonLisp Object System. The authors, who developed the metaobject protocol and who were among the group that developed CLOS, introduce this new approach to programming language design, describe its evolution and design principles, and present a formal specification of a metaobject protocol for CLOS. Kiczales, des Rivieres, and Bobrow

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show that the "art of metaobject protocol design" lies in creating a synthetic ...

The Art of the Metaobject Protocol (□□)

In computer science, a metaobject is an object that manipulates, creates, describes, or implements objects. The

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object that the metaobject pertains to is called the base object. Some information that a metaobject might define includes the base object's type, interface, class, methods, attributes, parse tree, etc. Metaobjects are examples of the computer science concept of reflection, where a system has access to its own internal structure. Reflection enables a

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system to essentially rewrite itself

Metaobject - Wikipedia

The Art of the Metaobject Protocol. The CLOS metaobject protocol is an elegant, high-performance extension to the CommonLisp Object System. The authors, who developed the metaobject protocol and who were among the group

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that developed CLOS, introduce this new approach to programming language design, describe its evolution and design principles, and present a formal specification of a metaobject protocol for CLOS.

**The Art of the Metaobject Protocol
by Gregor Kiczales**

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The Art of the Metaobject Protocol (AMOP) is a wonderful book to learn about these topics. A metaobject protocol gives application programmers an interesting context. With a metaobject protocol the available design space isn't fixed. Rather the possible design space extends to a larger region.

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reflective techniques that can be applied under existing software engineering considerations to yield a new approach to programming language design that meets a broad set of design criteria.

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