
Predicting software complexity can save millions in maintenance costs, but while current measures can be used to some degree, most are not sufficiently sensitive or comprehensive.

Applying Software Complexity Metrics to Program Maintenance

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Over the past several years, computer scientists have devoted a great deal of effort to measuring computer program "complexity," since many large software systems can be used for 10, 15, or even 20 years. A large part of that time involves maintenance activities, which include all changes made to a piece of software after it has been delivered to and accepted by the final user. Consequently, maintenance is most affected by program complexity.

Recent estimates suggest that about 40 to 70 percent of annual software expenditures involve maintenance of existing systems. Clearly, if complexities could somehow be identified, then programmers could adjust maintenance procedures accordingly. What is needed is some method of pinpointing the characteristics of a computer program that are difficult to maintain and measuring the degree of their presence (or lack of it). Such a method could be used in preparing "quality specifications" for programs that are to be written; checking specification compliance of programs after they have been written, but before they are delivered; making proper design trade-offs between development and maintenance costs; and selecting a particular type of software.

Software complexity

The degree to which characteristics that impede software maintenance are present is called software maintainability and is driven primarily by software complexity, the measure of how difficult the program is to comprehend and work with. Maintenance characteristics that are affected by complexity include software understandability, software modifiability, and software testability.

Various approaches may be taken in measuring complexity characteristics, such as Baled and Noma's¹ approach, in which scales of measurement are divided into the following four types:

(1) *Nominal scales.* The measure classifies the items. For example, programs are grouped into classifications of "not difficult to understand," "moderately difficult to understand," "difficult to understand," and "very difficult to understand."

(2) *Ordinal scales.* The measure actually ranks individual items. For example, we would say not only that program *A*, program *B*, and program *C* are all "moderately difficult to understand," but also that program *B* was more difficult to understand than program *C*, and program *A* was more difficult to understand than program *B*.

(3) *Interval scales.* The measure not only ranks items in relation to each other but also tells how far apart they are. For example, we would say not only that program *A* was more difficult than program *B* but also that program *A* was 10 "units of difficulty" more difficult to understand than program *B*.

(4) *Ratio scales.* The measure not only ranks the items and determines how far apart they are from each other but also determines how far the measures lie from a total lack of the characteristic being measured. This allows multiplication and division to be used on the resulting measures, so we can obtain measures that indicate that program *A* is twice as difficult to understand as program *B*. This property is unique to the ratio scale.

The most flexible type of measurement seems to be the ratio scale, but we would be hard put to find a degree of impeding characteristics that even approaches zero complexity, so this scale is not really the most effective. On the other hand, an ordinal scale would be feasible, and in some cases, even an interval scale could be developed, but a major problem with interval scales is determining the "unit of difficulty" and its meaning.

We believe the ordinal scale to be the best choice for examining complexity metrics, and all measures discussed in this article are in that framework.

Applying Software Metrics

Kathleen Margaret Finney



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Software Engineering R. Aziz, University of Manchester Institute of Science and Technology. Department of Computation, 1991 *Real-Time Systems, Architecture, Scheduling, and Application* Seyed Morteza Babamir, 2012-04-11 This book is a rich text for introducing diverse aspects of real time systems including architecture specification and verification scheduling and real world applications It is useful for advanced graduate students and researchers in a wide range of disciplines impacted by embedded computing and software Since the book covers the most recent advances in real time systems and communications networks it serves as a vehicle for technology transition within the real time systems community of systems architects designers technologists and system analysts Real time applications are used in daily operations such as engine and break mechanisms in cars traffic light and air traffic control and heart beat and blood pressure monitoring This book includes 15 chapters arranged in 4 sections Architecture chapters 1 4 Specification and

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Proceedings of the National Conference, 1981 **The Application of Software Metrics to the Area of Software Specification** Kathleen Margaret Finney, 1998 **ACM '81 Conference Proceedings, Los Angeles, California, November 9-11, 1981** Association for Computing Machinery, 1981 *Proceedings of the ... Symposium on Applied Computing*, 1991 Best Practices in Software Measurement Christof Ebert, 2005 Practical approach to software measurement Contains hands on industry experiences **1991 Symposium on Applied Computing, Kansas City, Missouri, April 3-5, 1991** Vijay Kumar, Elizabeth A. Unger, 1991 Trends and Applications: 1981, 1981

Object-Oriented Metrics in Practice Michele Lanza, Radu Marinescu, 2007-05-16 Metrics are paramount in every engineering discipline Software engineering however is not considered a classical engineering activity for several reasons In general if a software system is seen to deliver the required functionality only few people if any care about the internals Moreover defining understanding and applying software metrics often looks like an overly complex activity recommended only to trained professionals Lanza and Marinescu demystify the design metrics used to assess the size quality and complexity of object oriented software systems Based on statistical information from many industrial projects and generally accepted semantics they deduce many single and combined threshold values They show in detail how to identify collaboration and classification disharmony patterns in code how to visualize their results using the freely available CodeCrawler visualization tool and how to devise possible remedies The combination of theoretically sound results and practically tested procedures and solution paths makes this book an ideal companion for professional software architects developers and quality engineers The pattern oriented description of disharmonies offers easy access to detecting shortcomings and applying solution strategies This well written book is an important piece of work that takes the seemingly forgotten art of object oriented metrics to the next level in terms of relevance and usefulness Richard C Gronback Chief Scientist Borland Software Corporation

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