
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

Rachel Sandford



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Applying Software Metrics Paul Oman, Shari Lawrence Pfleeger, 1996-11-13 Features a useful collection of important and practical papers on applying software metrics and measurement The book details the importance of planning a successful measurement program with a complete discussion of why what where when and how to measure and who should be involved Each chapter addresses these significant questions and provides the essential answers in building an effective measurement program The book differs from others on the market by focusing on the application of the metrics rather than the metrics themselves The author s provide information based on actual experience with successful metrics programs Each chapter includes a case study focusing on technology transfer and a set of recommended references The book serves as a guide on the use and application of software metrics in industrial environments It is specially designed for managers product supervisors and quality assurance personnel who want to know how to implement a metrics program *Software Metrics C.* Ravindranath Pandian, 2003-09-26 The modern field of software metrics emerged from the computer modeling and statistical thinking services of the 1980s As the field evolved metrics programs were integrated with project management and metrics grew to be a major tool in the managerial decision making process of software companies Now practitioners in the software industry have a reference that validates software metrics as a crucial tool for efficient and successful project management and execution *Software Metrics A Guide to Planning Analysis and Application* simplifies software measurement and explains its value as a pragmatic tool for management Ideas and techniques presented in this book are derived from best practices The ideas are field proven down to earth and straightforward making this volume an invaluable resource for those striving for process improvement This overview helps readers enrich their knowledge of measurements and analysis best practices and how ordinary analysis techniques can be applied to achieve extraordinary results Easy to understand tools and methods are applied to demonstrate how metrics create models that are indispensable to decision making in the software industry

Software Metrics Karl-Heinrich Möller, Daniel J. Paulish, 1993 *Application of Software Metrics in Software Engineering* R. Aziz, University of Manchester Institute of Science and Technology. Department of Computation, 1991

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Proceedings of the National Conference ,1981 **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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