

The Economics Of Software Quality

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The Economics of Software Quality The Economics of Software Quality: How To Collect Software Quality And Cost Data **The Economics of Software Quality: Why Projects Fail If Quality Is Poor** Economics of Software Quality - An Interview with Capers Jones -Part 1 of 2 — DevTernity 2018: J.B. Rainsberger - **The Economics of Software Design** #devternity **Economics of Software Quality: Why High Quality Costs Less Than Low Quality** **Economics of Software Quality—An Interview with Capers Jones- Part 2 of 2 Cost of Software Quality The Three Aspects of Software Quality** How to Improve Software Quality **Jeremy Blum Insight** The Economics of Software Quality: How to Improve Quality Costs Ju0026 Schedules Simultaneously Meet Test Engineers at Google Top 5 real time Agile Interview Questions What is Agile? Software Development Lifecycle in 9 minutes! Scrum 101 - Part 1 - Scrum Basics | Scrum Training Video Series **What is Scrum?** | **Scrum in 20 Minutes** | **Scrum Master Training** | **Eureka** English bulldog laughing

What is SOFTWARE QUALITY? What does SOFTWARE QUALITY mean? SOFTWARE QUALITY meaning Ju0026 explanation

Cost of Quality: What is it? Using Function Points For Economic Analysis Of Software Methodologies Software Quality Metrics You Can Count On - ICSO ASO 2015 **Measuring Software Quality 2018**

Jonathan Blow on Software Quality at the CSUA 15**Software Quality—Georgia Tech - Software Development Process** Becoming a Software Testing Expert Agile vs Waterfall | Which Software Development Approach Would You Choose? | Eureka **The Economics of Software Dependability** **The Economics Of Software Quality** **The Economics of Software Quality** is a comprehensive, data-rich study of challenges of quality software across the many application domains. It is an essential read for software quality professionals who wish to better understand the challenges they face and the cost and effectiveness of potential solutions.

The Economics of Software Quality: Jones, Capers ...

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Economics of Software Quality, The 1, Jones Capers ...

In **The Economics of Software Quality**, leading software quality experts Capers Jones and Jitendra Subramanyam show how to systematically measure the economic impact of quality and how to use this information to deliver far more business value.

The Economics of Software Quality [Book]

The book **The Economics of Software Quality** provides solutions to quantify Software Quality, helping you to manage software development and maintenance. It contains software quality data that you can use to build a business case to improve the quality of your software, and decide upon processes and techniques that can help to implement the needed improvements in your organization.

The Economics of Software Quality by Capers Jones

Economics of Software Quality, The | InformIT. Poor quality continues to bedevil large-scale development projects, but few software leaders and practitioners know how to measure quality, select quality best practices, or cost-justify their usage. In **The Economics of Software Quality**, leading software quality experts Capers Jones and Olivier Bonsignour show how to systematically measure the economic impact of quality and how to use this information to deliver far more business value.

Economics of Software Quality, The | InformIT

Higher quality software drives higher productivity. It also lowers the total cost of IT ownership and offers considerable economic benefit to the enterprise, whether it ' s software needed to run the business, or to sell to customers. Quality problems become security issues: today ' s bugs become tomorrow ' s vulnerabilities.

CSO Perspective: The Economics of Software Quality and ...

The book **Economics of Software Quality** provides solutions to quantify Software Quality and manage software development and maintenance. It contains data usable to build a business case to improve quality, and decide upon improvements in your organization.

The Economics of Software Quality - Ben Linders

The productivity rate of software developers and teams can vary based on the level of quality of code they are producing. Typically, developers are capable of producing code in a range of qualities, from low to high.

Economics of Software Quality | Blog - Steve Smith

In the first of a three-part interview with co-authors Capers Jones and Olivier Bonsignour, we are introduced to their new book, " **The Economics of Software Quality**." Jones and Bonsignour describe " structural quality " vs. " functional quality, " along with challenges and advice about avoiding pitfalls related to measuring structural quality.

Quality metrics: The economics of software quality

Software quality assurance (QA) is a critical function in the successful development and maintenance of software systems. Because the QA activity adds significantly to the cost of developing software, the cost-effectiveness of QA has been a pressing concern to software quality managers.

[PDF] **The Economics of Software Quality Assurance: A ...**

In **The Economics of Software Quality**, leading software quality experts Capers Jones and Olivier Bonsignour show how to systematically measure the economic impact of quality and how to use this information to deliver far more business value.

Book: **The Economics of Software Quality - Ben Linders**

In **The Economics of Software Quality**, leading software quality experts Capers Jones and Jitendra Subramanyam show how to systematically measure the economic impact of quality and how to use this information to deliver far more business value.

Economics of Software Quality, The on Apple Books

"This book provides the best treatment on the subject of economics of software quality that I've seen. Peppered with valuable industry data, in-depth analysis, empirical methods for quality improvement, and economic analysis of quality, this book is a must-read for anyone who is interested in this subject.

The economics of software quality (Book, 2012) | WorldCat.org

Capers Jones discusses key topics from his latest book, **The Economics of Software Quality**. Learn how to systematically measure the economic impact of quality and how to use this information to ...

The Economics of Software Quality

For example, software quality does not mean the same thing to a customer as it does to a developer. Economic value has a different meaning to vendors than it has to consumers. For vendors, revenue is the key element of value, and for consumers, operational factors represent primary value. Both of these are discussed later in the book.

Chapter 1. Defining Software Quality and Economic Value ...

In **The Economics of Software Quality**, leading software quality experts Capers Jones and Olivier Bonsignour show how to systematically measure the economic impact of quality and how to use this...

The Economics of Software Quality, Video Enhanced Edition ...

First time accepted submitter BenLinders writes "The Economics of Software Quality provides solutions to quantify software quality, helping you to manage software development and maintenance. It contains software quality data that you can use to build a business case to improve the quality of your software, and decide upon processes and techniques that can help to implement the needed improvements in your organization."

Book Review: **The Economics of Software Quality - Slashdot**

Software Engineering Best Practices : lessons from successful projects in the top companies, Capers Jones, McGraw-Hill, 2010, ISBN 978-0-07-162161-8. **The Economics of Software Quality**, Capers Jones, Olivier Bonsignour and Jitendra Subramanyam, Addison-Wesley Longman, 2011. ISBN 978-0-13-258220-9.

Software legend Capers Jones reveals the tight links between software quality, ROI, and TCO, and help you optimize all three • **Strong empirical evidence** that high quality generates strongly positive ROI and reduced TCO. • **Practical ways to prevent defects**, and remove them in pre-test, test, and postrelease. • **Easy checklists for assessing and improving practice**, plus insights into the costs/benefits of intervention. • **By renowned software consultant Capers Jones**. In this book, world-renowned software management expert Capers Jones and software quality guru Jitendra Subramanyam help development leaders and practitioners quantify and optimize the economic impact of quality throughout the software lifecycle - and then choose the highest value interventions to improve it. The authors introduce powerful empirical and field data on the ability of inspection, static analysis, and test methods to reduce up to 95% of defects, and discuss the business value of improvements of this magnitude. **The Economics of Software Quality** is based on proven best quality practices in IT departments and at world-leading integrators, embedded software companies, and systems software groups. Jones and Curtis bring together crucial new information on: • **Identifying and fixing the root causes of short- and long-term software cost inefficiencies.** • **Predicting and measuring software defects and their quality impacts.** • **Assessing current practices and identifying the best interventions.** • **Calculating the ROI of quality during development and maintenance.** • **Comparing and choosing methods of defect prevention.** • **Selecting methods of defect removal, such as inspections and static analysis.** • **Understanding and evaluating more than 20 kinds of software testing.** • **Best practices for postrelease defect reporting and repair.** • **Recognizing 'hazardous' metrics and their problems**

" Whether consulting, working on projects, or teaching, whenever I need credible, detailed, relevant metrics and insights into the current capabilities and performance of the software engineering profession, I always turn first to Capers Jones ' work. In this important new book, he and Olivier Bonsignour make the hard-headed, bottom-line, economic case, with facts and data, about why software quality is so important. I know I ' ll turn to this excellent reference again and again. " —Rex Black, President, RBCS Poor quality continues to bedevil large-scale development projects, but few software leaders and practitioners know how to measure quality, select quality best practices, or cost-justify their usage. In **The Economics of Software Quality**, leading software quality experts Capers Jones and Olivier Bonsignour show how to systematically measure the economic impact of quality and how to use this information to deliver far more business value. Using empirical data from hundreds of software organizations, Jones and Bonsignour show how integrated inspection, structural quality measurement, static analysis, and testing can achieve defect removal rates exceeding 95 percent. They offer innovative guidance for predicting and measuring defects and quality; choosing defect prevention, pre-test defect removal, and testing methods; and optimizing post-release defect reporting and repair. This book will help you Move beyond functional quality to quantify non-functional and structural quality Prove that improved software quality translates into strongly positive ROI and greatly reduced TCO Drive better results from current investments in Quality Assurance and Testing Use quality improvement techniques to stay on schedule and on budget Avoid " hazardous " metrics that lead to poor decisions

This is the video enhanced eBook version of the printed book. It contains 55 minutes of video conversations & tips from the industry's leading software management consultant, Capers Jones. Important note: The audio and video content included with this enhanced eBook can be viewed only using eBooks on an iPad, iPhone, or iPod touch. Due to the incredibly rich media included in your enhanced eBook, you may experience longer than usual download times. Please be patient while your product is delivered. " Whether consulting, working on projects, or teaching, whenever I need credible, detailed, relevant metrics and insights into the current capabilities and performance of the software engineering profession, I always turn first to Capers Jones ' work. In this important new book, he and Olivier Bonsignour make the hard-headed, bottom-line, economic case, with facts and data, about why software quality is so important. I know I ' ll turn to this excellent reference again and again. " —Rex Black, President, RBCS Poor quality continues to bedevil large-scale development projects, but few software leaders and practitioners know how to measure quality, select quality best practices, or cost-justify their usage. In **The Economics of Software Quality**, leading software quality experts Capers Jones and Olivier Bonsignour show how to systematically measure the economic impact of quality and how to use this information to deliver far more business value. Using empirical data from hundreds of software organizations, Jones and Bonsignour show how integrated inspection, structural quality measurement, static analysis, and testing can achieve defect removal rates exceeding 95 percent. They offer innovative guidance for predicting and measuring defects and quality; choosing defect prevention, pre-test defect removal, and testing methods; and optimizing post-release defect reporting and repair. This book will help you Move beyond functional quality to quantify non-functional and structural quality Prove that improved software quality translates into strongly positive ROI and greatly reduced TCO Drive better results from current investments in Quality Assurance and Testing Use quality improvement techniques to stay on schedule and on budget Avoid " hazardous " metrics that lead to poor decisions

Economics-driven Software Architecture presents a guide for engineers and architects who need to understand the economic impact of architecture design decisions: the long term and strategic viability, cost-effectiveness, and sustainability of applications and systems. Economics-driven software development can increase quality, productivity, and profitability, but comprehensive knowledge is needed to understand the architectural challenges involved in dealing with the development of large, architecturally challenging systems in an economic way. This book covers how to apply economic considerations during the software architecting activities of a project. Architecture-centric approaches to development and systematic evolution, where managing complexity, cost reduction, risk mitigation, evolvability, strategic planning and long-term value creation are among the major drivers for adopting such approaches. It assists the objective assessment of the lifetime costs and benefits of evolving systems, and the identification of legacy situations, where architecture or a component is indispensable but can no longer be evolved to meet changing needs at economic cost. Such consideration will form the scientific foundation for reasoning about the economics of nonfunctional requirements in the context of architectures and architecting. Familiarizes readers with essential considerations in economic-informed and value-driven software design and analysis Introduces techniques for making value-based software architecting decisions Provides readers a better understanding of the methods of economics-driven architecting

A superior primer on software testing and quality assurance, from integration to execution and automation This important new work fills the pressing need for a user-friendly text that aims to provide software engineers, software quality professionals, software developers, and students with the fundamental developments in testing theory and common testing practices. **Software Testing and Quality Assurance: Theory and Practice** equips readers with a solid understanding of: Practices that support the production of quality software Software testing techniques Life-cycle models for requirements, defects, test cases, and test results Process models for units, integration, system, and acceptance testing How to build test teams, including recruiting and retaining test engineers Quality Models, Capability Maturity Model, Testing Maturity Model, and Test Process Improvement Model Expertly balancing theory with practice, and complemented with an abundance of pedagogical tools, including test questions, examples, teaching suggestions, and chapter summaries, this book is a valuable, self-contained tool for professionals and an ideal introductory text for courses in software testing, quality assurance, and software engineering.

The Economics of Information Systems and Software focuses on the economic aspects of information systems and software, including advertising, evaluation of information systems, and software maintenance. The book first elaborates on value and values, software business, and scientific information as an economic category. Discussions focus on information products and information services, special economic properties of information, culture and convergence, hardware and software products, materiality and consumption, technological progress, and software flexibility. The text then takes a look at advertising to finance software, perspectives on East-West relations in economics and information, and evaluation of information systems. Topics include research on information systems, knowledge on Eastern European information services, GDR information institutes, local databases, CMEA directions, and theoretical propositions. The manuscript reviews software reuse, software methodology in the harsh light of economics, quantitative aspects of software maintenance management, and calibrating a software cost-estimation model. Concerns cover the need for calibration, measuring maintainability, prognosis of maintenance effort, object-oriented programming, metaprogramming, and software quality and reuse. The text is a dependable reference for computer science experts and researchers wanting to explore further the economics of information systems and software.

The book presents a comprehensive discussion on software quality issues and software quality assurance (SQA) principles and practices, and lays special emphasis on implementing and managing SQA. Primarily designed to serve three audiences; universities and college students, vocational training participants, and software engineers and software development managers, the book may be applicable to all personnel engaged in a software projects Features: A broad view of SQA. The book delves into SQA issues, going beyond the classic boundaries of custom-made software development to also cover in-house software development, subcontractors, and readymade software. An up-to-date wide-range coverage of SQA and SQA related topics. Providing comprehensive coverage on multifarious SQA subjects, including topics, hardly explored till in SQA texts. A systematic presentation of the SQA function and its tasks: establishing the SQA processes, planning, coordinating, follow-up, review and evaluation of SQA processes. Focus on SQA implementation issues. Specialized chapter sections, examples, implementation tips, and topics for discussion. Pedagogical support: Each chapter includes a real-life mini case study, examples, a summary, selected bibliography, review questions and topics for discussion. The book is also supported by an Instructor ' s Guide.

Software Engineering Economics is an invaluable guide to determining software costs, applying the fundamental concepts of microeconomics to software engineering, and utilizing economic analysis in software engineering decision making.

Software is one of the most important products in human history and is widely used by all industries and all countries. It is also one of the most expensive and labor-intensive products in human history. Software also has very poor quality that has caused many major disasters and wasted many millions of dollars. Software is also the target of frequent and increasingly serious cyber-attacks. Among the reasons for these software problems is a chronic lack of reliable quantified data. This reference provides quantified data from many countries and many industries based on about 26,000 projects developed using a variety of methodologies and team experience levels. The data has been gathered between 1970 and 2017, so interesting historical trends are available. Since current average software productivity and quality results are suboptimal, this book focuses on "best in class" results and shows not only quantified quality and productivity data from best-in-class organizations, but also the technology stacks used to achieve best-in-class results. The overall goal of this book is to encourage the adoption of best-in-class software metrics and best-in-class technology stacks. It does so by providing current data on average software schedules, effort, costs, and quality for several industries and countries. Because productivity and quality vary by technology and size, the book presents quantitative results for applications between 100 function points and 100,000 function points. It shows quality results using defect potential and DRE metrics because the number one cost driver for software is finding and fixing bugs. The book presents data on cost of quality for software projects and discusses technical debt, but that metric is not standardized. Finally, the book includes some data on three years of software maintenance and enhancements as well as some data on total cost of ownership.

Starting in the mid 1990s, the United States economy experienced an unprecedented upsurge in economic productivity. Rapid technological change in communications, computing, and information management continue to promise further gains in productivity, a phenomenon often referred to as the New Economy. To better understand this phenomenon, the National Academies Board on Science, Technology, and Economic Policy (STEP) has convened a series of workshops and commissioned papers on Measuring and Sustaining the New Economy. This major workshop, entitled Software, Growth, and the Future of the U.S. Economy, convened academic experts and industry representatives from leading companies such as Google and General Motors to participate in a high-level discussion of the role of software and its importance to U.S. productivity growth; how software is made and why it is unique; the measurement of software in national and business accounts; the implications of the movement of the U.S. software industry offshore; and related policy issues.

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