

# Software engineering performance metrics dashboard to improve results

This slide covers software engineering KPI dashboard to improve results and efficiency. It involves details such as new issues of last week, number of remaining issues, daily pull requests, average response time on daily basis and cumulative task flow.

New issues of last week

28

Remaining issues

15

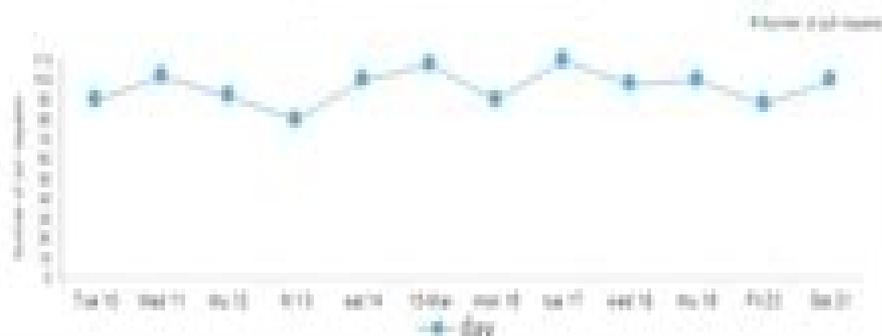
Days remaining in sprint

17

Velocity



Daily pull requests



Cumulative task flow



Average response time on daily basis



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# Software Engineering Metrics

**Magued Iskander**



## **Software Engineering Metrics:**

Software Engineering Metrics and Models Samuel Daniel Conte, H. E. Dunsmore, V. Y. Shen, 1986 The role of metrics and models in software development Software metrics Measurement and analysis Small scale experiments micro models of effort and programming techniques Macro models of productivity Macro models for effort estimation Defect models The future of software engineering metrics and models References Appendices Index

**Metrics and Models in Software Quality Engineering** Stephen H. Kan, 2003 This is the single best book on software quality engineering and metrics that I've encountered Capers Jones from the Foreword Metrics and Models in Software Quality Engineering Second Edition is the definitive book on this essential topic of software development Comprehensive in scope with extensive industry examples it shows how to measure software quality and use measurements to improve the software development process Four major categories of quality metrics and models are addressed quality management software reliability and projection complexity and customer view In addition the book discusses the fundamentals of measurement theory specific quality metrics and tools and methods for applying metrics to the software development process New chapters bring coverage of critical topics including In process metrics for software testing Metrics for object oriented software development Availability metrics Methods for conducting in process quality assessments and software project assessments Dos and Don'ts of Software Process Improvement by Patrick O Toole Using Function Point Metrics to Measure Software Process Improvement by Capers Jones In addition to the excellent balance of theory techniques and examples this book is highly instructive and practical covering one of the most important topics in software development quality engineering 0201729156B08282002

**Software Engineering Metrics: Measures and validations** Martin Shepperd, 1993 A compendium of articles by the world's leading authorities on software metrics Topics range from design specification and validation to more advanced topics such as automated measurement systems

*Software Metrics* Karl-Heinrich Möller, Daniel J. Paulish, 1993

**Best Practices in Software Measurement** Christof Ebert, 2005 Practical approach to software measurement Contains hands on industry experiences

*Software Metrics* Norman Fenton, James Bieman, 2014-10-01 A Framework for Managing Measuring and Predicting Attributes of Software Development Products and Processes Reflecting the immense progress in the development and use of software metrics in the past decades *Software Metrics A Rigorous and Practical Approach* Third Edition provides an up to date accessible and comprehensive introduction to software metrics Like its popular predecessors this third edition discusses important issues explains essential concepts and offers new approaches for tackling long standing problems New to the Third Edition This edition contains new material relevant to object oriented design design patterns model driven development and agile development processes It includes a new chapter on causal models and Bayesian networks and their application to software engineering This edition also incorporates recent references to the latest software metrics activities including research results industrial case studies and standards Suitable for a Range of Readers With numerous examples and

exercises this book continues to serve a wide audience It can be used as a textbook for a software metrics and quality assurance course or as a useful supplement in any software engineering course Practitioners will appreciate the important results that have previously only appeared in research oriented publications Researchers will welcome the material on new results as well as the extensive bibliography of measurement related information The book also gives software managers and developers practical guidelines for selecting metrics and planning their use in a measurement program Software Metrics Norman E. Fenton, Shari Lawrence Pfleeger, 1997 Software Metrics 2 e is ideal for undergraduate and graduates studying a course in software metrics or software quality assurance It also provides an excellent resource for practitioners in industry

Five Core Metrics Lawrence H. Putnam, Ware Myers, 2013 This is the digital version of the printed book Copyright 2003 To succeed in the software industry managers need to cultivate a reliable development process By measuring what teams have achieved on previous projects managers can more accurately set goals make bids and ensure the successful completion of new projects Acclaimed long time collaborators Lawrence H Putnam and Ware Myers present simple but powerful measurement techniques to help software managers allocate limited resources and track project progress Drawing new findings from an extensive database of software project metrics the authors demonstrate how readers can control projects with just Five Core Metrics Time Effort Size Reliability and Process Productivity With these metrics managers can adjust ongoing projects to changing conditions surprises that would otherwise cause project failure **Software Engineering with Formal Metrics** Lem O. Ejiogu, 1991 *Software Engineering Metrics* Stephen Grabowski, 2003 **Software Metrics** Paul Goodman, 2004 The first section defines exactly what I mean by the term Software Metrics and introduces the reader to the domain of Software Metrics by discussing the need for a measurement based approach to the management of software engineering This first section then for reasons which will become obvious looks at a particular measurement technique Function Point Analysis before discussing specific areas of application for Software Metrics The second section is really the core of the book This section describes an approach to the development and implementation of Software Metrics initiatives Essentially the approach centers around a model that breaks the work into a number of stages This division of labor into phases is of course nothing more than the way in which most successful projects are handled it is what makes up those stages that I hope will be found beneficial The third section is a collection of chapters that belong in this book but do not sit naturally in either of the other two sections Here we visit the topics that seem to be generating discussion today and we will also look at some topics that may be key issues in the near future Appendices and references are also provided

**Computational Science and Its Applications - ICCSA 2009** Osvaldo Gervasi, David Taniar, Beniamino Murgante, Antonio Laganà, Youngsong Mun, 2009-07-09 The two volume set LNCS 5592 and 5593 constitutes the refereed proceedings of the International Conference on Computational Science and Its Applications ICCSA 2009 held in Seoul Korea in June July 2009 The two volumes contain papers presenting a wealth of original research results in the field of

computational science from foundational issues in computer science and mathematics to advanced applications in virtually all sciences making use of computational techniques The topics of the fully refereed papers are structured according to the five major conference themes computational methods algorithms and scientific applications high performance technical computing and networks advanced and emerging applications as well as information systems and information technologies Moreover submissions from more than 20 workshops and technical sessions contribute to this publication These cover topics such as geographical analysis urban modeling spatial statistics wireless and ad hoc networking logical scientific and computational aspects of pulse phenomena in transitions high performance computing and information visualization sensor network and its applications molecular simulations structures and processes collective evolutionary systems software engineering processes and applications molecular simulations structures and processes internet communication security security and privacy in pervasive computing environments and mobile communications

**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 Software Engineering

Metrics Martin Shepperd,1993 *Library of Congress Subject Headings* Library of Congress,Library of Congress. Office for Subject Cataloging Policy,2011

**Innovative Techniques in Instruction Technology, E-learning, E-assessment and Education** Magued Iskander,2008-08-20 Innovative Techniques in Instruction Technology E Learning E Assessment and Education is a collection of world class paper articles addressing the following topics 1 E Learning including development of courses and systems for technical and liberal studies programs online laboratories intelligent testing using fuzzy logic evaluation of on line courses in comparison to traditional courses mediation in virtual environments and methods for speaker verification 2 Instruction Technology including internet textbooks pedagogy oriented markup languages graphic design

possibilities open source classroom management software automatic email response systems tablet pcs personalization using web mining technology intelligent digital chalkboards virtual room concepts for cooperative scientific work and network technologies management and architecture 3 Science and Engineering Research Assessment Methods including assessment of K 12 and university level programs adaptive assessments auto assessments assessment of virtual environments and e learning 4 Engineering and Technical Education including cap stone and case study course design virtual laboratories bioinformatics robotics metallurgy building information modeling statistical mechanics thermodynamics information technology occupational stress and stress prevention web enhanced courses and promoting engineering careers 5 Pedagogy including benchmarking group learning active learning teaching of multiple subjects together ontology and knowledge representation 6 Issues in K 12 Education including 3D virtual learning environment for children e learning tools for children game playing and systems thinking and tools to learn how to write foreign languages

**Proceedings of the 3rd International Conference on Frontiers of Intelligent Computing: Theory and Applications (FICTA) 2014** Suresh Chandra Satapathy, Bhabendra Narayan Biswal, Siba K. Udgata, J. K. Mandal, 2014-10-31 This volume contains 87 papers presented at FICTA 2014 Third International Conference on Frontiers in Intelligent Computing Theory and Applications The conference was held during 14 15 November 2014 at Bhubaneswar Odisha India This volume contains papers mainly focused on Network and Information Security Grid Computing and Cloud Computing Cyber Security and Digital Forensics Computer Vision Signal Image Video Processing Software Engineering in Multidisciplinary Domains and Ad hoc and Wireless Sensor Networks Languages, Methodologies and Development Tools for Multi-Agent Systems Mehdi Dastani, 2008-07-18 This book constitutes the thoroughly refereed post workshop proceedings of the First International Workshop on Languages Methodologies and Development Tools for Multi Agent Systems LADS 2007 held in Durham UK in September 2007 The workshop was part of MALLOW 2007 a federation of workshops on Multi Agent Logics Languages and Organizations The 15 revised full papers presented together with 1 invited paper reporting the aims and achievements of the OpenKnowledge project were carefully reviewed and selected from 32 submissions The papers are organized in topical sections on agent reasoning and semantics declarative languages and technologies methodologies and design and development frameworks

Metrics For Software Conceptual Models Marcela Genero, Mario Piattini, Coral Calero, 2005-01-04 The idea that measuring quality is the key to developing high quality software systems is gaining relevance Moreover it is widely recognised that the key to obtaining better software systems is to measure the quality characteristics of early artefacts produced at the conceptual modelling phase Therefore improving the quality of conceptual models is a major step towards the improvement of software system development Since the 1970s software engineers had been proposing high quantities of metrics for software products processes and resources but had not been paying any special attention to conceptual modelling By the mid 1990s however the need for metrics for conceptual modelling had emerged This book provides an overview of the

most relevant existing proposals of metrics for conceptual models covering conceptual models for both products and processes

**Advances in Information and Communication** Kohei Arai, 2025-03-06 This book comprises the proceedings of the Future of Information and Communication Conference FICC 2025 held on 28-29 April 2025 in Berlin, Germany. The conference brought together leading researchers, industry experts, and academics from across the globe to discuss the latest advancements, challenges, and opportunities in the rapidly evolving field of information and communication technologies. The conference received an impressive 401 submissions, of which 138 high-quality papers were selected after a rigorous peer review process. These contributions span a diverse range of topics, including artificial intelligence, cybersecurity, data science, networking, human-computer interaction, and more. FICC 2025 provided an engaging platform for collaboration and knowledge exchange, highlighting state-of-the-art research and practical solutions to global challenges. This proceedings book serves as a valuable resource for researchers, practitioners, and innovators seeking insights into the future of information and communication technologies.

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recessive false. 10. codominance multiple ... 11-3 Exploring Mendelian Genetics Flashcards the inheritance of biological characteristics is determined by genes that are passed from parents to their offspring in organisms that reproduce sexually Exploring Mendelian Genetics Exploring Mendelian Genetics. Section 11-3. Independent Assortment. In a two-factor cross, Mendel followed \_\_\_\_\_ different genes as they passed from one ... 11-3 Exploring Mendelian Genetics Mendel crossed the heterozygous F1 plants ( $RrYy$ ) with each other to determine if the alleles would segregate from each other in the F2 generation.  $RrYy \times RrYy$ . 11-3 Exploring Mendelian Genetics What is the difference between incomplete dominance and codominance? • Incomplete dominance = heterozygous phenotype is somewhere in between the 2. Section 11-3 Exploring Mendelian Genetics Section 11-3 Exploring Mendelian Genetics. (pages 270-274). Key Concepts. • What is the principle of independent assortment? • What inheritance patterns exist ... Answers For CH 11, 13, 14 Reading Handout Section 11—3 Exploring Mendelian Genetics 9. What was the ratio of Mendel's F2 generation for the two-factor cross? (pages 270-274) 10. Complete the Punnett ... 11-3 Exploring Mendelian Genetics Aug 14, 2014 — 11-3 Exploring Mendelian Genetics. Key Concepts: What is the principle of independent assortment? What inheritance patterns exist aside from ... Answers to All Questions and Problems Aug 14, 2015 — CHAPTER 1. 1.1 In a few sentences, what were Mendel's key ideas about inheritance? ANS: Mendel postulated transmissible factors—genes—to.