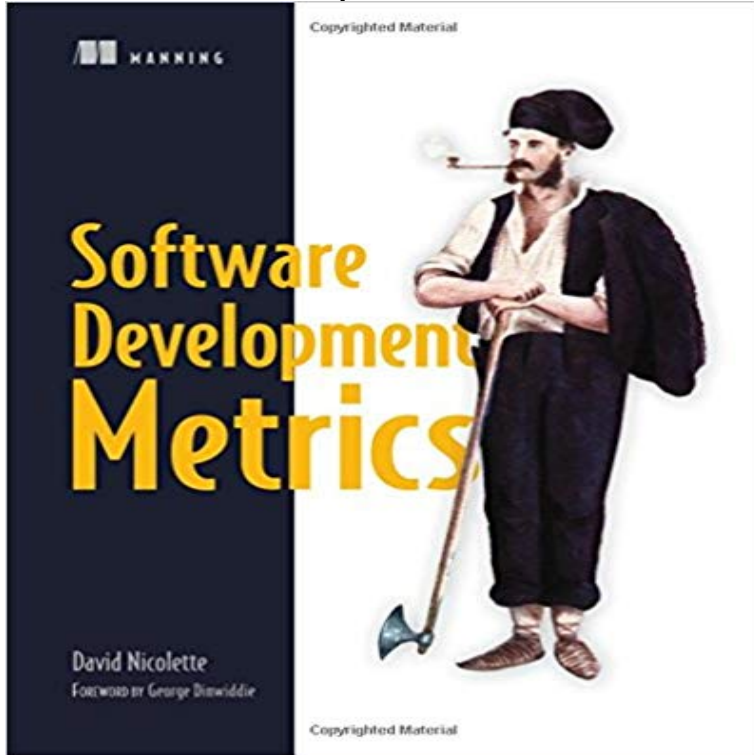


Software Development Metrics



Summary Software Development Metrics is a handbook for anyone who needs to track and guide software development and delivery at the team level, such as project managers and team leads. New development practices, including agile methodologies like Scrum, have redefined which measurements are most meaningful and under what conditions you can benefit from them. This practical book identifies key characteristics of organizational structure, process models, and development methods so that you can select the appropriate metrics for your team. It describes the uses, mechanics, and common abuses of a number of metrics that are useful for steering and for monitoring process improvement. The insights and techniques in this book are based entirely on field experience. Purchase of the print book includes a free eBook in PDF, Kindle, and ePub formats from Manning Publications. About the Book When driving a car, you are less likely to speed, run out of gas, or suffer engine failure because of the measurements the car reports to you about its condition. Development teams, too, are less likely to fail if they are measuring the parameters that matter to the success of their projects. This book shows you how. Software Development Metrics teaches you how to gather, analyze, and effectively use the metrics that define your organizational structure, process models, and development methods. The insights and examples in this book are based entirely on field experience. You'll learn practical techniques like building tools to track key metrics and developing data-based early warning systems. Along the way, you'll learn which metrics align with different development practices, including traditional and adaptive methods. No formal experience with developing or applying metrics is assumed. What's Inside Identify the most valuable metrics for your team and

process Differentiate improvement from change Learn to interpret and apply the data you gather Common pitfalls and anti-patterns About the Author Dave Nicolette is an organizational transformation consultant, team coach, and trainer. Dave is active in the agile and lean software communities. Table of Contents Making metrics useful Metrics for steering Metrics for improvement Putting the metrics to work Planning predictability Reporting outward and upward

Whether you are a scrum or kanban team, each of these agile metrics will help the team better understand their development process, making releasing software Software Development Metrics that Matter. As an industry we do a surprisingly poor job of measuring the work that we do and how well we do it. Velocity (story points or user stories completed in a fixed time period) is one of the most commonly used metrics in agile software development. It can be argued that the quality of software management has an effect on the degree of success or failure of a software development program. We have Since 2007, I have been involved in an effort to measure success for software development projects regardless of their methodology so that we Effectively Measure the Quality of Outsourced Software Development Vendors with These Key Metrics. roughly a 5 min read by Ben Saunders. Weve interviewed Dave Nicolette, a consultant specializing in improving software development and delivery methods and author of Software The goal of tracking and analyzing software metrics is to determine the quality of the current product or process, improve that quality and predict the quality once the software development project is complete. On a more granular level, software development managers are trying to: Increase return on investment (ROI) Trends (not fluctuations) in objective metrics remain useful, but only when they support a specific business goal. This is why modern software development Tasktalks is an engineering-focused podcast telling the stories of Tasktops engineering teams from internal practices to the day-to-day Were working on compiling The Essential Guide to Software Development Team Metrics and over the past few weeks, weve been discussing What is software quality metrics? What metrics should you pay attention to make all software development steps right? Tom DeMarco, an