

# Optimizing

Ronald Bradford

Optimizing Project Management Te Wu, 2020-04-27 **SHELVING GUIDE: Project Management** This hands-on guide is written for project professionals seeking to find an optimized way of performing project management. It provides answers to such critical questions as: Why should an organization apply project management? What is the value of project management in the broader context of an organization? Is project management as successful as some advocates suggested or is it a waste of time and resources because of the many extensive and bureaucratic processes? Which project management approach should our project team adopt: predictive or adaptive, waterfall or rolling water, extreme programming or Scrum? This book aims to provide an optimized view of project management by balancing and blending competing methodologies (e.g., traditional versus Agile), lengthy methodologies and broad principles, processes and practices, and the need to understand versus the need to apply. It includes project management templates, an integrated case study illustrating how to apply tools and concepts, and a glossary of key terms. Optimizing Project Management is for both aspiring and practicing project management professionals. It covers the core concepts, practices, and skills that are useful for developing new ideas, planning activities, implementing projects, and conducting planning and controlling of schedule, budget, and scope. The text is particularly useful for students, project professionals wanting to refresh their knowledge, and those pursuing project management certifications. This book is aligned with common project management standards such as the Project Management Body of Knowledge and the ISO 21502: Project, Programme and Portfolio Management — Guidance on Project Management.

Optimizing Optimization Stephen Satchell, 2009-09-19 The practical aspects of optimization rarely receive global, balanced examinations. Stephen Satchell's nuanced assembly of technical presentations about optimization packages (by their developers) and about current optimization practice and theory (by academic researchers) makes available highly practical solutions to our post-liquidity bubble environment. The commercial chapters emphasize algorithmic elements without becoming sales pitches, and the academic chapters create context and explore development opportunities. Together they offer an incisive perspective that stretches toward new products, new techniques, and new answers in quantitative finance. Presents a unique confrontation between software engineers and academics Highlights a global view of common optimization issues Emphasizes the research and market challenges of optimization software while avoiding sales pitches Accentuates real applications, not laboratory results

**Optimizing Oracle Performance** Cary Millsap, Jeff Holt, 2003-09-16 Oracle system performance inefficiencies often go undetected for months or even years--even under intense scrutiny--because traditional Oracle performance analysis methods and tools are fundamentally flawed. They're unreliable and inefficient. Oracle DBAs and developers are all too familiar with the outlay of time and resources, blown budgets, missed deadlines, and marginally effective performance fiddling that is commonplace with traditional methods of Oracle performance tuning. In this crucial book, Cary Millsap, former VP of Oracle's System Performance Group, clearly and concisely explains how to use Oracle's response time statistics to diagnose and repair performance problems. Cary also shows how queueing theory can be applied to response time statistics to predict the impact of upgrades and other system changes. Optimizing Oracle Performance eliminates the time-consuming, trial-and-error guesswork inherent in most conventional approaches to tuning. You can determine exactly where a system's performance problem is, and with equal importance, where it is not, in just a few minutes--even if the problem is several years old. Optimizing Oracle Performance cuts a path through the complexity of current tuning methods, and streamlines an approach that focuses on optimization techniques that any DBA can use quickly and successfully to make noticeable--even dramatic--improvements. For example, the one thing database users care most about is response time. Naturally, DBAs focus much of their time and effort towards improving response time. But it is entirely too easy to spend hundreds of hours to improve important system metrics such as hit ratios, average latencies, and wait times, only to find users are unable to perceive the difference. And an expensive hardware upgrade may not help either. It doesn't have to be that way. Technological advances have added impact, efficiency, measurability, predictive capacity, reliability, speed, and practicality to the science of Oracle performance optimization. Optimizing Oracle Performance shows you how to slash the frustration and expense associated with unraveling the true root cause of any type of performance problem, and reliably predict future performance. The price of this essential book will be paid back in hours saved the first time its methods are used.

**Active Robust Optimization: Optimizing for Robustness of Changeable Products** Shaul Salomon, 2019-07-06 This book presents a novel framework, known as Active Robust Optimization, which provides the tools for evaluating, comparing and optimizing changeable products. Since any product that can change its configuration during normal operation may be considered a "changeable product," the framework is widely applicable. Further, the methodology enables designers to use adaptability to deal with uncertainties and so avoid over-conservative designs. Offering a comprehensive overview of the framework, including its unique features, such as its ability to optimally respond to uncertain situations, the book also defines a new class of optimization problem and examines the effects of changes in various parameters on their solution. Lastly, it discusses innovative approaches for solving the problem and demonstrates these with two examples from different fields in engineering design: optimization of an optical table and optimization of a gearbox.

Optimizing Organization Design Ronald G. Capelle, 2013-10-29 Optimizing Organization Design offers a comprehensive resource and valued guide for anyone interested in improving organization performance. The book presents an approach to optimizing organization design that is based on over 100 large scale projects and 23 research studies that have been completed by Capelle Associates over the past 25 years. In addition, the book includes insightful comments from executives on their success in using this approach. Capelle's research and client experience reveal that optimizing organization design leads to better financial performance, customer satisfaction and employee engagement. It can provide a competitive advantage and a significant return on investment. It can also become the foundation of both strategy implementation and human resources management. Capelle shows that organization design includes the alignment of a number of critical factors, including positions (vertical and functional); accountabilities and authorities (managerial and cross functional); people; deliverables and tasks. He shows that manager - direct report alignment is the single most important organization design variable. His research also shows that it is suboptimal nearly half the time. This is a horrendous waste of talent and capability, but also provides a significant opportunity for improvement in organization performance. Optimizing Organization Design clearly explains how to implement organization design improvements. This approach includes people change management, project management, and a cascading, iterative approach that is based on teams and involves education, doing real work and feedback. In addition, Optimizing Organization Design includes special sections on the role of the Board of Directors, project management, process management and compensation. In addition, the author has included four case studies and a useful glossary.

**A Systolic Array Optimizing Compiler** Monica S. Lam, 2012-12-06 This book is a revision of my Ph. D. thesis dissertation submitted to Carnegie Mellon University in 1987. It documents the research and results of the compiler technology developed for the Warp machine. Warp is a systolic array built out of custom, high-performance processors, each of which can execute up to 10 million floating-point operations per second (10 MFLOPS). Under the direction of H. T. Kung, the Warp machine matured from an academic, experimental prototype to a commercial product of General Electric. The Warp machine demonstrated that the scalable architecture of high-performance, programmable systolic arrays represents a practical, cost-effective solution to the present and future computation-intensive applications. The success of Warp led to the follow-on iWarp project, a joint project with Intel, to develop a single-chip 20 MFLOPS processor. The availability of the highly integrated iWarp processor will have a significant impact on parallel computing. One of the major challenges in the development of Warp was to build an optimizing compiler for the machine. First, the processors in the xx A Systolic Array Optimizing Compiler array cooperate at a fine granularity of parallelism, interaction between processors must be

considered in the generation of code for individual processors. Second, the individual processors themselves derive their performance from a VLIW (Very Long Instruction Word) instruction set and a high degree of internal pipelining and parallelism. The compiler contains optimizations pertaining to the array level of parallelism, as well as optimizations for the individual VLIW processors.

**Optimizing Growth** Jason Green, Mark Henneman, Dimitar Antov, 2018-05-08 Leverage big data and demand into sustainable profitable growth *Optimizing Growth* is a handbook for how to succeed in the age of big data. Today's business environment looks dramatically different than it did even a decade ago, and it continues to evolve at an increasing rate; macroeconomic shifts, consumer trends, technological advances, and changing competitive dynamics are accelerating the pace of change, and businesses are struggling to grow amidst the turbulence. This book provides insightful guidance, real-world success stories and practical tools to achieve growth in this new era, utilizing big data to achieve a deeper understanding of demand, customers, competitors, and opportunity. With disruption around every corner, growth now demands innovative new approaches and an improved capacity to meet customer needs; by gaining a stronger grasp of demand, businesses can elevate performance from "survive" to "thrive." This book provides the approaches, analytics, frameworks, and organizational capabilities required to gain competitive advantage, and describes the new mindset required to leverage these tools into sustainable growth. Develop a deeper understanding of your business's growth factors Re-sync your thinking to gain greater leverage against disruption Delve deeper into demand, and boost fulfillment capabilities Capture more growth opportunities using precision analytics frameworks The one thing that will never change about business is the goal of growth—but the paths to growth change continuously. New opportunities forge new routes to the top, while others become obsolete—does your company know the difference? The ability to differentiate between fads and genuine evolution is more critical than ever before. *Optimizing Growth* provides deep knowledge of what's out there, and a clear framework for forging ahead.

**Optimizing and Assessing Information Technology** K. Scott Proctor, 2011-07-22 A valuable guide to making better IT decisions within business *Optimizing and Assessing Information Technology* is designed to be both easy-to-use and immediately useful. Engaging and accessible, this book has been created to help you focus on improving business project execution through effective IT optimization and assessment. While it skillfully outlines a framework for optimizing and assessing IT, it does not get into specific technologies per se, given the rapid and increasing pace of technical change across the world today. *Optimizing and Assessing Information Technology* involves a step-by-step process whereby various aspects of IT are evaluated. In addition to the book itself, a companion website offers templates, checklists, and related materials for your reference and use. With this book as your guide, you'll be able to generate an accurate and reliable assessment of a company's IT operations and identify areas on which to focus to optimize IT. Topics such as against what to assess operations and optimized as compared to what will be addressed throughout the course of this reliable resource. Introduces the concept of the IT Pillars Model (IPM) for optimizing and assessing IT and examines where and how the IPM fits into the overall operations of a business Filled with the author's experience of working across the field of IT in both small and large companies Offers the most detailed, hands-on user's guide to the principles and practice of the IPM by examining each aspect of the IPM in the context of case studies Covers the topic of tools and reporting, including analytical tools such as ROI, benchmarking, and metrics *Optimizing and Assessing Information Technology* provides valuable insights into this discipline, but the coverage of IT in this book extends beyond technology itself. It also covers various aspects of the people, processes, and technology components associated with IT as a whole.

**Emarketing Excellence** Dave Chaffey, P. R. Smith, Paul Russell Smith, 2013 Built around the CIM e-Marketing Award, this book addresses an important area of marketing. The core of the book is an established but flexible marketing model that makes sense of the issues that online and interactive techniques can create.

**High Performance Mobile Web** Maximiliano Firtman, 2016-09-13 Optimize the performance of your mobile websites and webapps to the extreme. With this hands-on book, veteran mobile and web developer Maximiliano Firtman demonstrates which aspects of your site or app slow down the user's experience, and what you can do to achieve lightning-fast performance. There's much at stake: if you want to boost your app's conversion rate, then tackling performance issues is the best way to start. Learn tools and techniques for working with responsive web design, images, the network layer, and many other ingredients—plus the metrics to check your progress. Ideal for web developers and web designers with HTML, CSS, JavaScript, and HTTP experience, this is your guide to superior mobile web performance. You'll dive into: Emulators, simulators, and other tools for measuring performance Basic web performance concepts, including metrics, charts, and goals How to get real data from mobile browsers on your real networks APIs and specs for measuring, tracking and improving web performance Insights and tricks for optimizing the first view experience Ways to optimize post-loading experiences and future visits Responsive web design and its performance challenges Tips for extreme performance to achieve best conversion rates How to work with web views inside native apps

**Optimizing Factory Performance: Cost-Effective Ways to Achieve Significant and Sustainable Improvement** James Ignizio, 2009-06-12 TQM, Reengineering, Theory of Constraints, JIT, Six Sigma, Lean Manufacturing . . . These are just some of the methods that, over the past five decades, have promised to transform any manufacturing firm into a lean, mean, moneymaking machine. While each incorporates certain fundamental truths, strengths, and benefits, they are not panaceas. Nor do they necessarily provide much-needed insight into the science that underlies factory performance. James Ignizio, Ph.D., an internationally recognized performance optimization expert, believes that only a balanced approach will provide the significant and sustainable improvement required of firms who will survive and prosper in the twenty-first century. In this breakthrough guide, Dr. Ignizio picks up where such concepts as Six Sigma and Lean Manufacturing leave off to provide you with a holistic, three-dimensional approach to mastering the art and science of manufacturing. Focusing on the three primary enemies of factory performance—complexity, variability, and lackluster leadership—*Optimizing Factory Performance* cuts to the heart of the problem of less-than-world-class performance and demonstrates how those enemies manifest themselves in companies across manufacturing sectors. Ignizio also explores the insidious effect company politics and flagging commitment to manufacturing performance have on competitiveness. Emphasizing the all-important, often overlooked third dimension of manufacturing—factory protocols—Ignizio describes the types of strategic and tactical changes to physical plant and operating procedures any company can make to achieve performance improvements. In addition, he arms you with powerful, original metrics for measuring and comparing factory performance, as well as a set of interactive simulation models, available online at [www.mhprofessional.com/ignizio](http://www.mhprofessional.com/ignizio). Running throughout the book is an often amusing, always instructive account of the fictional high-tech firm, Muddle, Inc., which helps support the concepts discussed in the real world of manufacturing, while reinforcing key lessons learned. Read *Optimizing Factory Performance* and find out how to transform your organization into the kind of fast, agile manufacturer that delivers the right products to the right customers at the right time—every time.

**Optimizing the Supply Chain** Jay E. Fortenberry, 2018-11-27 Supply Chain Optimization Field Guide is an essential book to help readers understand the dynamics of how a global business operates. In a recent article about the death of supply chain management, it was stated that in this world, forecasts are perfect, machines have no operators, and block chain drives it all. Practitioners in the world of supply chain know that it is central to the management of cash and that systems are never the silver bullet as they do not foresee events; they only provide calculations from the data they are fed. Chapter by chapter, this book provides a comprehensive understanding of the core concepts of people, process, and tools; and how a supply chain should operate in today's complex world. Readers will learn about how an ideal business maintains no unnecessary inventory, responds to changes, and delivers products on time or defect free—and how this ability is a competitive advantage for any business that can solve the equation. Key functional processes

are explained in detail for practitioners to learn how to operate effectively in today's arena.

**Digital Marketing Excellence** Dave Chaffey, PR Smith, 2022-07-22 Now in its sixth edition, the hugely popular Digital Marketing Excellence is a practical guide to creating and executing integrated digital marketing plans, combining established approaches to marketing planning with the creative use of new digital models and digital tools. Written by two highly experienced digital marketing consultants, the book shows you how to: Draw up an outline integrated digital marketing plan Evaluate and apply digital marketing principles and models Integrate online and offline communications Implement customer-driven digital marketing as part of digital transformation Reduce costly trial and error Measure and enhance your digital marketing Learn best practices for reaching and engaging your audiences using the key digital marketing platforms. This new edition has been streamlined to seamlessly integrate the latest developments in digital analytics, ethics and privacy, Predictive Analytics, Machine Learning and Artificial Intelligence. Including new international case studies and up-to-date examples throughout, this book cuts through the jargon to show marketers how to leverage data and digital technologies to their advantage. Offering a highly structured and accessible guide to a critical and far-reaching subject, Digital Marketing Excellence, 6th edition, provides a vital reference point for all digital marketing students, and managers involved in digital marketing strategy and implementation. Online resources have been fully updated for the new edition and include a new set of PowerPoint slides and a full test bank of questions and exercises.

**Optimizing Back Office Operations** Zahid Khalid, 2010-03-08 According to industry experts, a typical one billion dollar company spends approximately \$27 million on unnecessary working capital and inefficient processing functions because they lack visibility into the financial supply chain. Optimizing Back Office Operations: Best Practices to Maximize Profitability uses examples and case studies to show how cost optimization—and not cost reduction—in the core back office operations is the right approach to maximizing profitability and enterprise value. Implementation guidance is provided for Executives, CFOs, and Controllers on transitioning from outdated processes to a fully-optimized financial supply chain.

**Optimizing Data-to-Learning-to-Action** Steven Flinn, 2018-04-06 Apply a powerful new approach and method that ensures continuous performance improvement for your business. You will learn how to determine and value the people, process, and technology-based solutions that will optimize your organization's data-to-learning-to-action processes. This book describes in detail how to holistically optimize the chain of activities that span from data to learning to decisions to actions, an imperative for achieving outstanding performance in today's business environment. Adapting and integrating insights from decision science, constraint theory, and process improvement, the book provides a method that is clear, effective, and can be applied to nearly every business function and sector. You will learn how to systematically work backwards from decisions to data, estimate the flow of value along the chain, and identify the inevitable value bottlenecks. And, importantly, you will learn techniques for quantifying the value that can be attained by successfully addressing the bottlenecks, providing the credible support needed to make the right level of investments at the right place and at just the right time. In today's dynamic environment, with its never-ending stream of new, disruptive technologies that executives must consider (e.g., cloud computing, Internet of Things, AI/machine learning, business intelligence, enterprise social, etc., along with the associated big data generated), author Steven Flinn provides the comprehensive approach that is needed for making effective decisions about these technologies, underpinned by credibly quantified value. What You'll Learn Understand data-to-learning-to-action processes and their fundamental elements Discover the highest leverage data-to-learning-to-action processes in your organization Identify the key decisions that are associated with a data-to-learning-to-action process Know why it's NOT all about data, but it IS all about decisions and learning Determine the value upside of enhanced learning that can improve decisions Work backwards from the decisions to determine the value constraints in data-to-learning-to-action processes Evaluate people, process, and technology-based solution options to address the constraints Quantify the expected value of each of the solution options and prioritize accordingly Implement, measure, and continuously improve by addressing the next constraints on value Who This Book Is For Business executives and managers seeking the next level of organizational performance, knowledge workers who want to maximize their impact, technology managers and practitioners who require a more effective means to prioritize technology options and deployments, technology providers who need a way to credibly quantify the value of their offerings, and consultants who are ready to build practices around the next big business performance paradigm

**Optimizing Distributor Profitability** F. Barry Lawrence, Senthil Gunasekaran, Pradip Krishnadevarajan, 2009 With more than 120 exhibits, a Distributor Profitability Framework map, real-world examples, and a five-step Optimizing Distributor Profitability methodology with how-to-implement ideas and tools, this book presents a powerful weapon for wholesaler-distributors across various lines of trade to use to enhance shareholder value.

**Fundamentals of Performance Improvement** Darlene Van Tiem, James L. Moseley, Joan C. Dessinger, 2012-05-01 Fundamentals of Performance Improvement, 3rd Edition Fundamentals of Performance Improvement is a substantially new version of the down-to-earth, how-to guide designed to help business leaders, practitioners, and students understand the science and art of performance technology and successfully implement organizational and societal change. Using the Performance Improvement / Human Performance Technology (HPT) model, the expert authors explain step-by-step how to spot performance indicators, analyze problems, identify underlying causes, describe desired results, and create workable solutions. "It does not matter what function you align yourself to in your organization, this book allows you to tap into the secrets that drive organizational success. Several books work to define what is performance improvement and performance technology. This one also provides insights into the Why? And How?" —CEDRIC T. COCO, CPT, SVP, Learning and Organizational Effectiveness, Lowe's Companies "Fundamentals of Performance Improvement is full of practical models and tools for improving the world by partnering with customers, clients, constituents, and colleagues. It provides a path forward for successful transformation and performance improvement at personal, group and collective levels. It is a must read for leaders and consultants seeking to advance opportunities in new and emerging situations." —DIANA WHITNEY, PhD, president, Corporation for Positive Change "If you have an interest in performance improvement, this is simply the best available book on the topic. It addresses the science and craft as well as the intricacies of how to improve workplace performance. Van Tiem, Moseley, and Dessinger have incorporated into this work the best available research on the Certified Performance Technology (CPT) standards and process." —JAMES A. PERSHING, Ph.D., CPT, professor emeritus, Workplace Learning and Performance Improvement, Indiana University "Its international flavor, with practitioner comments and examples drawn from across the world, enhances its appeal as more and more professionals operate in an increasingly global context." —DALJIT SINGH, Asia Pacific Director of Talent Management, Baker & McKenzie, Sydney, Australia

**C++ High Performance** Bjorn Andrist, Viktor Sehr, Ben Garney, 2020-12-30 A comprehensive guide to help aspiring and professional C++ developers elevate the performance of their apps by allowing them to run faster and consume fewer resources. Purchase of the print or Kindle book includes a free eBook in PDF format. Key Features Updated to C++20 with completely revised code and more content on error handling, benchmarking, memory allocators, and concurrent programming Explore the latest C++20 features including concepts, ranges, and coroutines Utilize C++ constructs and techniques to carry out effective data structure optimization and memory management Book Description C++ High Performance, Second Edition guides you through optimizing the performance of your C++ apps. This allows them to run faster and consume fewer resources on the device they're running on without compromising the readability of your codebase. The book begins by introducing the C++ language and some of its modern concepts in brief. Once you are familiar with the fundamentals, you will be ready to measure, identify, and eradicate bottlenecks in your C++ codebase. By following

this process, you will gradually improve your style of writing code. The book then explores data structure optimization, memory management, and how it can be used efficiently concerning CPU caches. After laying the foundation, the book trains you to leverage algorithms, ranges, and containers from the standard library to achieve faster execution, write readable code, and use customized iterators. It provides hands-on examples of C++ metaprogramming, coroutines, reflection to reduce boilerplate code, proxy objects to perform optimizations under the hood, concurrent programming, and lock-free data structures. The book concludes with an overview of parallel algorithms. By the end of this book, you will have the ability to use every tool as needed to boost the efficiency of your C++ projects. What you will learn

Write specialized data structures for performance-critical code  
Use modern metaprogramming techniques to reduce runtime calculations  
Achieve efficient memory management using custom memory allocators  
Reduce boilerplate code using reflection techniques  
Reap the benefits of lock-free concurrent programming  
Gain insights into subtle optimizations used by standard library algorithms  
Compose algorithms using ranges library  
Develop the ability to apply metaprogramming aspects such as constexpr, constraints, and concepts  
Implement lazy generators and asynchronous tasks using C++20 coroutines

Who this book is for  
If you're a C++ developer looking to improve the efficiency of your code or just keen to upgrade your skills to the next level, this book is for you.

**Android on x86** Iggy Krajci,Darren Cummings,2014-01-23 Android on x86: an Introduction to Optimizing for Intel® Architecture serves two main purposes. First, it makes the case for adapting your applications onto Intel's x86 architecture, including discussions of the business potential, the changing landscape of the Android marketplace, and the unique challenges and opportunities that arise from x86 devices. The fundamental idea is that extending your applications to support x86 or creating new ones is not difficult, but it is imperative to know all of the technicalities. This book is dedicated to providing you with an awareness of these nuances and an understanding of how to tackle them. Second, and most importantly, this book provides a one-stop detailed resource for best practices and procedures associated with the installation issues, hardware optimization issues, software requirements, programming tasks, and performance optimizations that emerge when developers consider the x86 Android devices. Optimization discussions dive into native code, hardware acceleration, and advanced profiling of multimedia applications. The authors have collected this information so that you can use the book as a guide for the specific requirements of each application project. This book is not dedicated solely to code; instead it is filled with the information you need in order to take advantage of x86 architecture. It will guide you through installing the Android SDK for Intel Architecture, help you understand the differences and similarities between processor architectures available in Android devices, teach you to create and port applications, debug existing x86 applications, offer solutions for NDK and C++ optimizations, and introduce the Intel Hardware Accelerated Execution Manager. This book provides the most useful information to help you get the job done quickly while utilizing best practices.

Effective MySQL Optimizing SQL Statements Ronald Bradford,2011-10-22 The Essential Guide to SQL Statement Optimization Written by Oracle ACE Director and MySQL expert Ronald Bradford, Effective MySQL: Optimizing SQL Statements is filled with detailed explanations and practical examples that can be applied immediately to improve database and application performances. Featuring a step-by-step approach to SQL optimization, this Oracle Press book helps you to analyze and tune problematic SQL statements. Identify the essential analysis commands for gathering and diagnosing issues Learn how different index theories are applied and represented in MySQL Plan and execute informed SQL optimizations Create MySQL indexes to improve query performance Master the MySQL query execution plan Identify key configuration variables that impact SQL execution and performance Apply the SQL optimization lifecycle to capture, identify, confirm, analyze, and optimize SQL statements and verify the results Improve index utilization with covering indexes and partial indexes Learn hidden performance tips for improving index efficiency and simplifying SQL statements

Reviewing **Optimizing**: Unlocking the Spellbinding Force of Linguistics

In a fast-paced world fueled by information and interconnectivity, the spellbinding force of linguistics has acquired newfound prominence. Its capacity to evoke emotions, stimulate contemplation, and stimulate metamorphosis is actually astonishing. Within the pages of "**Optimizing**," an enthralling opus penned by a highly acclaimed wordsmith, readers embark on an immersive expedition to unravel the intricate significance of language and its indelible imprint on our lives. Throughout this assessment, we shall delve in to the book is central motifs, appraise its distinctive narrative style, and gauge its overarching influence on the minds of its readers.

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## Optimizing Introduction

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