

the pragmatic programmer pdf

the pragmatic programmer pdf is a highly sought-after resource for software developers aiming to enhance their programming skills and adopt best practices in software development. This influential book, authored by Andrew Hunt and David Thomas, has become a cornerstone in the programming community for its practical advice, effective techniques, and timeless wisdom. The availability of the pragmatic programmer pdf makes it easier for developers to access this knowledge conveniently, allowing them to integrate its principles into daily coding and project management workflows. In this article, the focus will be on exploring the key aspects of the pragmatic programmer pdf, its content structure, how it benefits software professionals, and legitimate ways to obtain this important resource. Additionally, insights into the book's core themes and programming philosophies will be examined to provide a comprehensive understanding of its value. This guide aims to assist developers, technical leads, and software engineers in leveraging the pragmatic programmer pdf for career growth and improved software craftsmanship.

- Overview of The Pragmatic Programmer
- Key Concepts Covered in The Pragmatic Programmer PDF
- Benefits of Using The Pragmatic Programmer PDF
- How to Access The Pragmatic Programmer PDF Legally
- Applying The Pragmatic Programmer Principles in Daily Work

Overview of The Pragmatic Programmer

The Pragmatic Programmer is a seminal book in the field of software development that has influenced countless programmers since its first publication. Authored by Andrew Hunt and David Thomas, this book presents a collection of practical advice, development philosophies, and problem-solving techniques aimed at improving the quality and maintainability of software. The pragmatic programmer pdf encapsulates these teachings in a digital format, making it accessible to a global audience. The book emphasizes adaptability, craftsmanship, and continuous learning as foundations for successful programming careers.

Historical Background and Authors

Published initially in 1999, The Pragmatic Programmer was written by Andrew Hunt and David Thomas, both experienced software developers and consultants. Their combined expertise brought forward a book that transcended specific programming languages or technologies, focusing instead on universal programming principles. The pragmatic programmer pdf continues to be relevant, with updated editions addressing modern software development challenges.

Structure of the Book

The book is organized into concise chapters and tips, each addressing specific aspects of programming and software engineering. Topics range from coding best practices, debugging, and code organization to career development and communication skills. The pragmatic programmer pdf format preserves this structured approach, which facilitates easy reference and targeted learning.

Key Concepts Covered in The Pragmatic Programmer PDF

The pragmatic programmer pdf covers a broad spectrum of essential programming concepts designed to cultivate a pragmatic and efficient mindset among developers. These concepts encourage responsibility, proactive behavior, and thoughtful decision-making throughout the software development lifecycle.

DRY Principle (Don't Repeat Yourself)

One of the most influential concepts introduced is the DRY principle, which advocates for the elimination of redundant code and information. By adhering to DRY, developers can reduce errors, simplify maintenance, and enhance code clarity.

Orthogonality

The pragmatic programmer pdf emphasizes orthogonality, which refers to the independence of components or modules, enabling changes in one area without unintended effects elsewhere. This design philosophy supports modular, flexible, and scalable software systems.

Tracer Bullets and Prototyping

The book advocates for iterative development using tracer bullets—thin, end-to-end slices of functionality—and prototyping to validate assumptions and reduce risks early in the development process.

Refactoring and Continuous Improvement

Refactoring is promoted as a regular activity to improve code structure without changing its external behavior. The pragmatic programmer pdf encourages developers to continuously refine their codebase to maintain quality and adaptability.

Automation and Tool Usage

Automation of repetitive tasks is another key theme, with recommendations to leverage tools for

testing, building, deployment, and monitoring. Embracing automation improves efficiency and reduces human error.

Communication and Documentation

Effective communication and clear documentation are highlighted as vital for successful collaboration and knowledge sharing within development teams.

Benefits of Using The Pragmatic Programmer PDF

Utilizing the pragmatic programmer pdf format offers several advantages that support efficient learning and application of software development best practices. This accessibility aligns with the fast-paced nature of modern programming environments.

Portability and Convenience

The PDF format allows programmers to carry the book on various devices such as laptops, tablets, or smartphones, enabling learning anytime and anywhere without the need for physical copies.

Searchability and Reference

The pragmatic programmer pdf supports keyword searches, making it easier to locate specific tips, concepts, or topics quickly, which is invaluable during coding sessions or problem-solving.

Cost Efficiency

Some editions or authorized distributions of the pragmatic programmer pdf may be available at reduced prices or through library systems, making the knowledge more accessible to a broader range of developers.

Interactive Use in Study Groups and Teams

Teams can share the pragmatic programmer pdf to facilitate collective learning, discussions, and the implementation of shared coding standards based on the book's principles.

How to Access The Pragmatic Programmer PDF Legally

Accessing the pragmatic programmer pdf through legal and ethical channels ensures compliance with copyright laws and supports the authors and publishers who contribute valuable educational content to the software development community.

Official Purchase from Publishers

Authorized retailers and publishers often offer the pragmatic programmer pdf for purchase, guaranteeing legitimate ownership and access to the most current versions.

Library and Educational Access

Many libraries and academic institutions provide access to the pragmatic programmer pdf through digital lending services, allowing users to read the book legally without direct purchase.

Promotions and Bundles

Occasionally, software training platforms or professional development courses include the pragmatic programmer pdf as part of their offerings, providing additional avenues for legitimate access.

Avoiding Unauthorized Copies

It is important to avoid downloading pirated or unauthorized copies of the pragmatic programmer pdf, as these infringe on copyright and may expose users to security risks.

Applying The Pragmatic Programmer Principles in Daily Work

The pragmatic programmer pdf offers actionable advice that can be integrated into daily programming routines to improve code quality, project outcomes, and professional growth.

Implementing Best Practices

Developers can adopt coding standards, automated testing, and regular refactoring as recommended in the pragmatic programmer pdf to maintain high-quality software projects.

Continuous Learning and Adaptability

The book encourages a mindset of ongoing education and flexibility in adopting new tools, languages, and methodologies, which is critical in the rapidly evolving tech industry.

Effective Problem Solving

The pragmatic programmer pdf advocates for breaking down complex problems, prototyping solutions, and iterative refinement, which enhances problem-solving efficiency.

Collaboration and Communication

Applying the communication principles from the pragmatic programmer pdf fosters better teamwork, clearer requirements gathering, and reduced misunderstandings in software projects.

Practical Checklist for Daily Use

- Review code for redundancy and apply the DRY principle.
- Modularize code to achieve orthogonality.
- Use automated tools to streamline repetitive tasks.
- Engage in regular refactoring sessions.
- Document code and design decisions clearly.
- Seek feedback and participate in code reviews.
- Stay updated with new programming trends and tools.

Frequently Asked Questions

Is there a free PDF version of 'The Pragmatic Programmer' available legally?

No official free PDF version of 'The Pragmatic Programmer' is available legally. The book is copyrighted, and purchasing it through authorized retailers or accessing it via libraries is recommended.

Where can I buy 'The Pragmatic Programmer' PDF legally?

'The Pragmatic Programmer' PDF can be purchased legally from online retailers such as Amazon Kindle Store, Pearson's official website, or other authorized ebook sellers.

What are the main topics covered in 'The Pragmatic Programmer'?

'The Pragmatic Programmer' covers topics like software craftsmanship, coding best practices, debugging, version control, automation, and career development for software developers.

Is 'The Pragmatic Programmer' suitable for beginners?

Yes, 'The Pragmatic Programmer' is suitable for beginners as well as experienced developers. It provides practical advice and foundational principles applicable to all levels.

Are there any updated editions of 'The Pragmatic Programmer' PDF?

Yes, the second edition of 'The Pragmatic Programmer' was released with updated content to reflect modern programming practices and tools. It is available in PDF and other formats.

Can I share 'The Pragmatic Programmer' PDF with my team?

Sharing the PDF without proper licensing or purchase rights is not legal. It is best to encourage each team member to obtain their own copy or use institutional licenses if available.

What formats are available for 'The Pragmatic Programmer' besides PDF?

'The Pragmatic Programmer' is available in several formats including hardcover, paperback, Kindle/eBook, and audiobook, in addition to PDF.

Additional Resources

1. *The Pragmatic Programmer: Your Journey to Mastery*

This updated edition of the classic book offers practical advice and best practices for software developers to improve their craft. It covers a wide range of topics including coding, debugging, teamwork, and career development. The book emphasizes thinking critically and pragmatically to write clean, maintainable code.

2. *Clean Code: A Handbook of Agile Software Craftsmanship*

Written by Robert C. Martin, this book focuses on the principles and best practices of writing clean, readable, and maintainable code. It includes numerous examples of bad code and how to transform it into good code. The book is essential for developers who want to improve code quality and reduce technical debt.

3. *Code Complete: A Practical Handbook of Software Construction*

Steve McConnell's comprehensive guide dives deep into software construction techniques, offering practical advice for writing high-quality code. It covers topics such as design, debugging, testing, and software craftsmanship. This book is widely regarded as one of the best resources for professional developers.

4. *Refactoring: Improving the Design of Existing Code*

Martin Fowler's seminal book introduces the concept of refactoring, the process of restructuring existing code to improve its design without changing its behavior. It provides a catalog of refactoring techniques along with detailed examples. This book helps developers maintain codebases that are easier to understand and extend.

5. *Working Effectively with Legacy Code*

Michael Feathers addresses the challenges of working with legacy codebases that lack automated tests and documentation. The book offers strategies to safely modify and improve legacy systems while minimizing risk. It is invaluable for developers tasked with maintaining or modernizing older software.

6. *Design Patterns: Elements of Reusable Object-Oriented Software*

Authored by the “Gang of Four,” this foundational book catalogs common design patterns that help solve recurring software design problems. It explains patterns in a way that enhances code reuse, flexibility, and maintainability. Understanding these patterns is essential for building robust object-oriented systems.

7. *Test-Driven Development: By Example*

Kent Beck’s book introduces the practice of test-driven development (TDD), where developers write tests before writing the actual code. It demonstrates how TDD leads to better design, fewer bugs, and more maintainable code. The book includes practical examples and guidance for adopting this methodology.

8. *Continuous Delivery: Reliable Software Releases through Build, Test, and Deployment Automation*

Jez Humble and David Farley explore techniques for automating the software delivery process to achieve faster and more reliable releases. The book covers build automation, testing strategies, deployment pipelines, and infrastructure management. It’s a must-read for teams aiming to improve their software delivery lifecycle.

9. *Soft Skills: The Software Developer's Life Manual*

John Sonmez provides a holistic approach to a developer’s career, focusing not only on coding but also on personal development, productivity, and career management. The book covers topics such as communication, mindset, learning strategies, and work-life balance. It complements technical books by addressing the human side of software development.

[The Pragmatic Programmer Pdf](#)

The Pragmatic Programmer: A Deep Dive into Timeless Software Development Principles

This ebook explores *The Pragmatic Programmer*, a seminal work in software development, analyzing its enduring relevance in today's rapidly evolving technological landscape and examining how its principles can enhance developer productivity, code quality, and career longevity. We'll delve into the book's core concepts, discuss their practical application, and explore how its wisdom translates to modern software engineering challenges.

Book Outline: *The Pragmatic Programmer* by Andrew Hunt and David Thomas

Introduction: The Pragmatic Philosophy

Chapter 1: A Pragmatic Approach – Discusses core tenets of pragmatic programming, emphasizing adaptability and a problem-solving mindset.

Chapter 2: Practical Tools and Technologies – Explores essential tools, techniques, and technologies, focusing on their practical application rather than theoretical details.

Chapter 3: Software Design in the Real World – Covers topics like design patterns, SOLID principles, and effective code structuring.

Chapter 4: Testing and Debugging – Explores various testing methodologies, debugging strategies, and techniques for writing robust and maintainable code.

Chapter 5: Collaboration and Communication – Focuses on the importance of teamwork, effective communication, and building strong professional relationships.

Chapter 6: Managing Your Career – Provides career advice for programmers, emphasizing continuous learning, skill development, and professional growth.

Chapter 7: Beyond the Code – Explores wider aspects of software development, like project management, risk mitigation, and dealing with legacy code.

Conclusion: Embracing the Pragmatic Programmer Mindset – Summarizes the key takeaways and reinforces the importance of continuous learning and adaptation in the ever-changing world of software development.

Detailed Breakdown:

Introduction: The Pragmatic Philosophy: This section lays the groundwork for the book's core tenets, introducing the concept of "pragmatism" in software development and setting the stage for the subsequent chapters. It emphasizes a practical, results-oriented approach that adapts to real-world challenges.

Chapter 1: A Pragmatic Approach: This chapter introduces core principles like DRY (Don't Repeat Yourself), orthogonality, and the importance of continuous learning. It establishes a foundation for the practical application of these principles throughout the book. The section emphasizes a results-oriented approach, prioritizing solutions over dogma.

Chapter 2: Practical Tools and Technologies: This section emphasizes the importance of mastering essential tools and technologies. It advocates for learning and adapting to new tools as needed, rather than focusing on mastering a single, outdated technology. This highlights the evolving nature of the software development landscape.

Chapter 3: Software Design in the Real World: This dives deep into essential design principles, like SOLID principles, design patterns, and the importance of well-structured, maintainable code. The chapter bridges the gap between theoretical concepts and their practical implementation. This explains how to apply design principles to achieve robust and adaptable software solutions.

Chapter 4: Testing and Debugging: This crucial chapter emphasizes the importance of rigorous testing and effective debugging strategies. It covers various testing methodologies and techniques to ensure the quality and reliability of the software. This section focuses on practical techniques for identifying and resolving software defects efficiently.

Chapter 5: Collaboration and Communication: This underscores the significance of effective teamwork and communication within development teams. It explores strategies for collaborative development, conflict resolution, and efficient knowledge sharing. This explores the human element of software development, emphasizing the crucial role of interpersonal skills.

Chapter 6: Managing Your Career: This goes beyond technical skills, offering valuable guidance on

career management, including continuous learning, skill development, and navigating the complexities of the software industry. This chapter provides practical advice on career planning and professional growth.

Chapter 7: Beyond the Code: This chapter extends beyond the core coding aspects, addressing project management, risk mitigation, legacy code management, and the wider business context of software development. This explores the broader business and professional aspects of being a software developer.

Conclusion: Embracing the Pragmatic Programmer Mindset: This section summarizes the key lessons learned throughout the book and reinforces the importance of adopting a pragmatic, adaptable mindset in the constantly evolving software development field. This section reinforces the central themes of the book and motivates readers to adopt a pragmatic approach to their own software development journey.

SEO Optimization Strategies for "The Pragmatic Programmer PDF"

To optimize for SEO, we need to target relevant keywords and phrases. Some examples include:

Primary Keywords: "The Pragmatic Programmer," "Pragmatic Programmer PDF," "Andrew Hunt," "David Thomas," "Software Development," "Software Engineering," "Programming Best Practices," "Coding Principles."

Secondary Keywords: "Agile Development," "Clean Code," "Refactoring," "Software Design Patterns," "Debugging Techniques," "Software Testing," "Career Advice for Programmers," "Software Development Methodology," "Professional Development for Developers," "Legacy Code," "Technical Debt."

Long-tail Keywords: "Where to download The Pragmatic Programmer PDF legally," "The best practices mentioned in the Pragmatic Programmer," "How to apply Pragmatic Programmer principles to [specific programming language]," "The Pragmatic Programmer summary for beginners," "Is The Pragmatic Programmer still relevant in 2024?"

On-Page Optimization:

Title Tag: Optimize the title tag to include primary keywords like "The Pragmatic Programmer PDF: A Guide to Practical Software Development."

Meta Description: Write a compelling meta description summarizing the book and its key benefits, incorporating relevant keywords.

Header Tags (H1-H6): Use header tags to structure the content logically, incorporating keywords naturally within the headings.

Image Optimization: Use relevant images with descriptive alt text containing keywords.

Internal Linking: Link to other relevant articles and resources on your website to improve site navigation and user experience.

URL Structure: Use clear, concise URLs that incorporate relevant keywords.

Off-Page Optimization:

Backlinks: Acquire high-quality backlinks from reputable websites in the software development niche.

Social Media Promotion: Share excerpts and key takeaways from the book on social media platforms.

Guest Blogging: Write guest posts on relevant blogs and websites, incorporating links back to your article.

Forum Participation: Engage in relevant online forums and communities, providing valuable insights and sharing your expertise.

FAQs

1. Is *The Pragmatic Programmer* still relevant today? Yes, its timeless principles remain highly relevant in today's dynamic software development landscape.
2. Where can I download a legal PDF of *The Pragmatic Programmer*? You should purchase the book directly from reputable vendors. Downloading illegal PDFs is unethical and potentially harmful.
3. What are the key takeaways from *The Pragmatic Programmer*? The book stresses practical skills, adaptability, continuous learning, and a results-oriented approach to software development.
4. Is this book suitable for beginners? While accessible to beginners, its depth makes it valuable throughout a developer's career.
5. What programming languages does the book cover? The book's principles are language-agnostic and apply to various programming languages.
6. How can I apply the DRY principle from the book? The DRY (Don't Repeat Yourself) principle means avoiding code duplication; abstracting common functionality into reusable components.
7. What is the importance of orthogonality in software design? Orthogonality improves maintainability by ensuring that changes in one part of the system have minimal impact on other parts.
8. How does the book address legacy code? It provides strategies for understanding, refactoring, and working effectively with legacy codebases.
9. Where can I find more resources on the concepts discussed in *The Pragmatic Programmer*? Numerous online resources, articles, and communities explore these concepts in more detail.

Related Articles

1. *Agile Software Development: A Pragmatic Approach*: Explores how Agile principles complement

and enhance the pragmatic programmer mindset.

2. Clean Code Principles and Practices: Expands on the concept of writing clean, maintainable code, aligning with the book's emphasis on code quality.
3. Software Design Patterns: A Practical Guide: Delves into design patterns and illustrates their application using examples, reinforcing the book's focus on practical design.
4. Effective Debugging Techniques for Software Developers: Provides in-depth information on debugging strategies, aligning with the book's emphasis on testing and quality assurance.
5. Refactoring Techniques for Improving Code Quality: Explores various refactoring techniques to improve existing code, reflecting the book's emphasis on maintaining and improving code.
6. Building High-Performing Software Development Teams: Focuses on building collaborative teams, reflecting the book's emphasis on teamwork and communication.
7. Continuous Learning for Software Developers: Provides strategies for lifelong learning and skill development in the ever-evolving field of software development.
8. Managing Technical Debt in Software Projects: Discusses strategies for managing and mitigating technical debt, addressing the book's emphasis on practical project management.
9. Career Progression Strategies for Software Engineers: Offers career advice and development strategies specifically for software engineers, aligning with the book's career-focused chapter.

the pragmatic programmer pdf: The Pragmatic Programmer Andrew Hunt, David Thomas, 1999-10-20 What others in the trenches say about The Pragmatic Programmer... "The cool thing about this book is that it's great for keeping the programming process fresh. The book helps you to continue to grow and clearly comes from people who have been there." — Kent Beck, author of Extreme Programming Explained: Embrace Change "I found this book to be a great mix of solid advice and wonderful analogies!" — Martin Fowler, author of Refactoring and UML Distilled "I would buy a copy, read it twice, then tell all my colleagues to run out and grab a copy. This is a book I would never loan because I would worry about it being lost." — Kevin Ruland, Management Science, MSG-Logistics "The wisdom and practical experience of the authors is obvious. The topics presented are relevant and useful.... By far its greatest strength for me has been the outstanding analogies—tracer bullets, broken windows, and the fabulous helicopter-based explanation of the need for orthogonality, especially in a crisis situation. I have little doubt that this book will eventually become an excellent source of useful information for journeymen programmers and expert mentors alike." — John Lakos, author of Large-Scale C++ Software Design "This is the sort of book I will buy a dozen copies of when it comes out so I can give it to my clients." — Eric Vought, Software Engineer "Most modern books on software development fail to cover the basics of what makes a great software developer, instead spending their time on syntax or technology where in reality the greatest leverage possible for any software team is in having talented developers who really know their craft well. An excellent book." — Pete McBreen, Independent Consultant "Since reading this book, I have implemented many of the practical suggestions and tips it contains. Across the board, they have saved my company time and money while helping me get my job done quicker! This should be a desktop reference for everyone who works with code for a living." — Jared Richardson, Senior Software Developer, iRenaissance, Inc. "I would like to see this issued to every new employee at my company...." — Chris Cleeland, Senior Software Engineer, Object Computing,

Inc. "If I'm putting together a project, it's the authors of this book that I want. . . . And failing that I'd settle for people who've read their book." — Ward Cunningham

Straight from the programming trenches, *The Pragmatic Programmer* cuts through the increasing specialization and technicalities of modern software development to examine the core process—taking a requirement and producing working, maintainable code that delights its users. It covers topics ranging from personal responsibility and career development to architectural techniques for keeping your code flexible and easy to adapt and reuse. Read this book, and you'll learn how to Fight software rot; Avoid the trap of duplicating knowledge; Write flexible, dynamic, and adaptable code; Avoid programming by coincidence; Bullet-proof your code with contracts, assertions, and exceptions; Capture real requirements; Test ruthlessly and effectively; Delight your users; Build teams of pragmatic programmers; and Make your developments more precise with automation. Written as a series of self-contained sections and filled with entertaining anecdotes, thoughtful examples, and interesting analogies, *The Pragmatic Programmer* illustrates the best practices and major pitfalls of many different aspects of software development. Whether you're a new coder, an experienced programmer, or a manager responsible for software projects, use these lessons daily, and you'll quickly see improvements in personal productivity, accuracy, and job satisfaction. You'll learn skills and develop habits and attitudes that form the foundation for long-term success in your career. You'll become a Pragmatic Programmer.

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The Pragmatic Programmer is one of those rare tech books you'll read, re-read, and read again over the years. Whether you're new to the field or an experienced practitioner, you'll come away with fresh insights each and every time. Dave Thomas and Andy Hunt wrote the first edition of this influential book in 1999 to help their clients create better software and rediscover the joy of coding. These lessons have helped a generation of programmers examine the very essence of software development, independent of any particular language, framework, or methodology, and the Pragmatic philosophy has spawned hundreds of books, screencasts, and audio books, as well as thousands of careers and success stories. Now, twenty years later, this new edition re-examines what it means to be a modern programmer. Topics range from personal responsibility and career development to architectural techniques for keeping your code flexible and easy to adapt and reuse. Read this book, and you'll learn how to: Fight software rot Learn continuously Avoid the trap of duplicating knowledge Write flexible, dynamic, and adaptable code Harness the power of basic tools Avoid programming by coincidence Learn real requirements Solve the underlying problems of concurrent code Guard against security vulnerabilities Build teams of Pragmatic Programmers Take responsibility for your work and career Test ruthlessly and effectively, including property-based testing Implement the Pragmatic Starter Kit Delight your users

Written as a series of self-contained sections and filled with classic and fresh anecdotes, thoughtful examples, and interesting analogies, *The Pragmatic Programmer* illustrates the best approaches and major pitfalls of many different aspects of software development. Whether you're a new coder, an experienced programmer, or a manager responsible for software projects, use these lessons daily, and you'll quickly see improvements in personal productivity, accuracy, and job satisfaction. You'll learn skills and develop habits and attitudes that form the foundation for long-term success in your career. You'll become a Pragmatic Programmer. Register your book for convenient access to downloads, updates, and/or corrections as they become available. See inside book for details.

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interested in entering the tech world as a professional, this book gives you a solid foundation in programming. Chris teaches the basics, but also shows you how to think like a programmer. You'll learn through tons of examples, and through programming challenges throughout the book. When you finish, you'll know how and where to learn more - you'll be on your way. What You Need: All you need to learn how to program is a computer (Windows, macOS, or Linux) and an internet connection. Chris Pine will lead you through setting set up with the software you will need to start writing programs of your own.

the pragmatic programmer pdf: Programming Machine Learning Paolo Perrotta, 2020-03-31 You've decided to tackle machine learning - because you're job hunting, embarking on a new project, or just think self-driving cars are cool. But where to start? It's easy to be intimidated, even as a software developer. The good news is that it doesn't have to be that hard. Master machine learning by writing code one line at a time, from simple learning programs all the way to a true deep learning system. Tackle the hard topics by breaking them down so they're easier to understand, and build your confidence by getting your hands dirty. Peel away the obscurities of machine learning, starting from scratch and going all the way to deep learning. Machine learning can be intimidating, with its reliance on math and algorithms that most programmers don't encounter in their regular work. Take a hands-on approach, writing the Python code yourself, without any libraries to obscure what's really going on. Iterate on your design, and add layers of complexity as you go. Build an image recognition application from scratch with supervised learning. Predict the future with linear regression. Dive into gradient descent, a fundamental algorithm that drives most of machine learning. Create perceptrons to classify data. Build neural networks to tackle more complex and sophisticated data sets. Train and refine those networks with backpropagation and batching. Layer the neural networks, eliminate overfitting, and add convolution to transform your neural network into a true deep learning system. Start from the beginning and code your way to machine learning mastery. What You Need: The examples in this book are written in Python, but don't worry if you don't know this language: you'll pick up all the Python you need very quickly. Apart from that, you'll only need your computer, and your code-adept brain.

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inevitable. Take concrete steps to build a relationship with your manager that helps both sides succeed. Guide your manager to treat you as a vital member of the team who should be kept as happy and productive as possible. When your manager insists on a course of action you don't like, most employees feel they have only two options: you can swallow your objections, or you can leave. Neither option gets you what you want, which is for your manager to consider your interests when making decisions. Challenging your boss directly is risky, but if you understand what really matters to your manager, you can build a balanced relationship that works for both sides. Provide timely good enough answers that satisfy the immediate need of the boss to move forward. Use a productive solution to the Iterated Prisoner's Dilemma to structure your interactions with management, going along when necessary and pushing back where appropriate, without threatening the loyalty relationship. Send the two most important messages to your boss: I got this and I got your back, to prove your value to the boss and the organization. Analyze your manager's communication preferences so you can express your arguments in a way most likely to be heard and understood. Avoid key traps, like thinking of the boss as your friend or violating the chain of command unnecessarily.

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architect, design, and build software - particularly distributed systems - that stands up to the typhoon winds of a flash mob, a Slashdotting, or a link on Reddit. Take a hard look at software that failed the test and find ways to make sure your software survives. To skip the pain and get the experience...get this book.

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those plain-language specifications and checks them against your application. Next, consolidate the knowledge you've gained with a worked example, where you'll learn more advanced Cucumber techniques, test asynchronous systems, and test systems that use a database. Recipes highlight some of the most difficult and commonly seen situations the authors have helped teams solve. With these patterns and techniques, test Ajax-heavy web applications with Capybara and Selenium, REST web services, Ruby on Rails applications, command-line applications, legacy applications, and more. Written by the creator of Cucumber and the co-founders of Cucumber Ltd., this authoritative guide will give you and your team all the knowledge you need to start using Cucumber with confidence. What You Need: Windows, Mac OS X (with XCode) or Linux, Ruby 1.9.2 and upwards, Cucumber 2.4, Rails 5, and RSpec 3.5

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and you'll learn how to handle the stuff that seems too tough to test. Pragmatic Unit Testing in Java 8 With JUnit steps you through all the important unit testing topics. If you've never written a unit test, you'll see screen shots from Eclipse, IntelliJ IDEA, and NetBeans that will help you get past the hard part--getting set up and started. Once past the basics, you'll learn why you want to write unit tests and how to effectively use JUnit. But the meaty part of the book is its collected unit testing wisdom from people who've been there, done that on production systems for at least 15 years: veteran author and developer Jeff Langr, building on the wisdom of Pragmatic Programmers Andy Hunt and Dave Thomas. You'll learn: How to craft your unit tests to minimize your effort in maintaining them. How to use unit tests to help keep your system clean. How to test the tough stuff. Memorable mnemonics to help you remember what's important when writing unit tests. How to help your team reap and sustain the benefits of unit testing. You won't just learn about unit testing in theory--you'll work through numerous code examples. When it comes to programming, hands-on is the only way to learn!

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