

The Grumpy Programmer's Guide To Building Testable Applications In PHP



The Grumpy Programmer S Guide To Building Testable Php Applications

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The Grumpy Programmer's Guide To Building Testable PHP Applications:

PHP Beyond the Web Rob Aley, 2016-12-15 Use your existing web based PHP skills to write all types of software CLI scripts desktop software network servers and more This book gives you the tools techniques and background necessary to write just about any type of software you can think of using the PHP you know PHP Beyond the Web shows you how to take your knowledge of PHP development for the web and utilise it with a much wider range of software systems Enjoy the benefits of PHP after reading this book save money by redeploying existing skills not learning new ones save time and increase productivity by using a high level language and make money by providing your clients a full stack service not just websites PHP is no longer just a great scripting language for websites it's now a powerful general purpose programming language Expand your use of PHP into your back end systems server software data processing services desktop interfaces and more What You'll Learn Write interactive shell scripts Work with system daemons Write desktop software Build network servers Interface with electronics using PHP and the Raspberry Pi Manage performance deployment licensing and system interaction Discover the software tools for development and get other great sources of technical information and help Who This Book Is For Experienced PHP programmers or experienced programmers interested in leveraging PHP outside the web development context

The Grumpy Programmer's Guide To Testing PHP Applications Kara Ferguson, Chris Hartjes, 2020-05-22 Learn how a Grumpy Programmer approaches testing PHP applications covering both the technical and core skills you need to learn in order to make testing just a thing you do instead of a thing you struggle with I feel that testing as a concept is hard to explain to beginning programmers we are going to write code that is going to make sure your other code works as expected The assumption that underlies all this is that you already understand how to write computer programs in your chosen language This makes it very difficult to teach to beginner or inexperienced programmers When you combine this with how PHP does not force any particular structure on you you have an environment where only the folks who are really motivated end up learning about testing The Grumpy Programmer's Guide To Testing PHP Applications is my way to try and provide some help for developers who are looking to become more test centric and reap the benefits of automated testing and related tooling like static analysis and automation I believe that by learning the skills both technical and core surrounding testing you will be able to write tests using almost any testing framework and almost any PHP application The book combines all the material from my previous books adds new material and revisits some old topics where my experiences have changed my thoughts I break the vast topic of testing into smaller chunks along with providing lots of examples and explanations of how I approach testing applications Some of the things I cover are Test Driven development Strategies for Test After practices Test refactoring strategies How PHPUnit itself works Complementary tools and approaches like static analysis and mutation testing Learning the core skills you need to get other people testing their code

Testing PHP Applications Phiquill Publishing, 2025-06-16 What You Will Learn in This Book Master the fundamentals of software quality

and automated testing in PHP understanding its critical role throughout the development lifecycle Implement effective testing strategies using the Testing Pyramid and Agile Testing Quadrants ensuring comprehensive coverage and efficient feedback Distinguish and apply various test types including unit integration functional and acceptance testing to different parts of your PHP applications Adopt Test Driven Development TDD principles to improve code design reduce bugs and build confidence in your development process Bridge the gap between business and technical teams with Behavior Driven Development BDD learning to write clear executable specifications using Gherkin Set up and configure robust testing environments for PHP leveraging essential tools like Composer Xdebug and version control Write and maintain unit tests effectively using PHPUnit covering assertions test doubles mocks stubs spies and advanced features for test organization and reporting Explore and utilize Pest a modern PHP testing framework for writing expressive and elegant unit tests and understand its advantages over or alongside PHPUnit Develop robust integration tests to verify interactions with databases filesystems external APIs and message queues mastering strategies for test data management Conduct functional and acceptance testing with Codeception from simulating user interactions in a browser to testing API endpoints and implementing the Page Object Pattern for maintainability Apply Behavior Driven Development BDD with Behat defining features and scenarios in Gherkin and implementing step definitions to drive development from a business perspective Strategically approach testing for legacy PHP codebases learning techniques to safely introduce tests and refactor towards testability Integrate your testing suite into Continuous Integration CI pipelines ensuring automated test execution and early feedback on every code change Interpret code coverage reports accurately and explore advanced testing techniques like mutation testing to enhance the quality and effectiveness of your test suite Gain foundational knowledge in performance and security testing for PHP applications understanding common vulnerabilities and basic testing considerations Design and build highly testable PHP applications by applying key design principles such as SOLID Dependency Injection and loose coupling Stay informed on emerging trends and the future of testing in PHP preparing you for continuous learning and adaptation in the evolving landscape

Test-Driven Development with PHP 8 Rainier Sarabia, Ben Hansen, 2023-01-13 A PHP developer's practical guide to planning writing and deploying maintainable and extensible software solutions with automated tests in a well structured way Key Features Learn to organize and translate business requirements into maintainable software Minimize regressions and bugs while releasing new features or bug fixes Build maintainable applications using SOLID principles Book Description PHP web developers end up building complex enterprise projects without prior experience in test driven and behavior driven development which results in software that's complex and difficult to maintain This step by step guide helps you manage the complexities of large scale web applications It takes you through the processes of working on a project starting from understanding business requirements and translating them into actual maintainable software to automated deployments You'll learn how to break down business requirements into workable

and actionable lists using Jira Using those organized lists of business requirements you ll understand how to implement behavior driven development BDD and test driven development TDD to start writing maintainable PHP code You ll explore how to use the automated tests to help you stop introducing regressions to an application each time you release code by using continuous integration By the end of this book you ll have learned how to start a PHP project break down the requirements build test scenarios and automated tests and write more testable and maintainable PHP code By learning these processes you ll be able to develop more maintainable and reliable enterprise PHP applications What you will learn Understand how to start a software project Discover how to use Jira as a tool to organize your tasks Explore when and how to write unit integration and functional tests using PHPUnit Write behavior driven tests using Behat Apply SOLID principles to help you write more testable code Get the most out of your automated tests by using continuous integration Use continuous delivery to help you prepare your application for deployment Who this book is for This book is for PHP software developers looking to implement TDD and BDD in their projects An understanding of object oriented programming is required to get the most out of this book Professional software development experience will also be beneficial to understand real life business cases

Building PHP Applications with Symfony, CakePHP, and Zend Framework Bartosz Porebski, Karol Przystal, Leszek Nowak, 2011-02-17 The first detailed unbiased comparison of the three leading PHP frameworks Web developers have been eager for an impartial comparison of leading PHP frameworks so they can make educated decisions about the most effective tool for their needs This guide uses Symfony CakePHP and Zend Framework to solve key problems providing source code examples and comparisons for each It explains the approach and reviews the similarities and differences in the three frameworks providing reliable information on which to base your decisions Symfony CakePHP and Zend Framework are considered the leading PHP frameworks developers need an unbiased comparison to choose which one works best for their individual situations This guide uses each framework to solve the same problems illustrating the solutions with source code examples and working applications Covers wide range of topics from installation and configuration to most advanced features like AJAX web services and automated testing Includes an appendix of new PHP frameworks including CodeIgniter Lithium and Agavi Bestselling PHP author Elizabeth Naramore serves as technical editor Comparison of PHP Web Frameworks provides the impartial side by side comparison that developers have been looking for

The PHP Workshop Alexandru Busuioc, David Carr, Markus Gray, Vijay Joshi, Mark McCollum, Bart McLeod, M A Hossain Tonu, 2019-10-31 Get to grips with the fundamentals of PHP programming and learn to build dynamic testable PHP web applications with the help of real world examples and hands on projects Key Features Start building modern and testable PHP web applications Master the basic syntax and fundamental features of PHP Implement object oriented programming to write modular well structured code Book Description Do you want to build your own websites but have never really been confident enough to turn your ideas into real projects If your web development skills are a bit rusty or if you ve simply never

programmed before The PHP Workshop will show you how to build dynamic websites using PHP with the help of engaging examples and challenging activities This PHP tutorial starts with an introduction to PHP getting you set up with a productive development environment You will write execute and troubleshoot your first PHP script using a built in templating engine and server Next you ll learn about variables and data types and see how conditions and loops help control the flow of a PHP program Progressing through the chapters you ll use HTTP methods to turn your PHP scripts into web apps persist data by connecting to an external database handle application errors and improve functionality by using third party packages By the end of this Workshop you ll be well versed in web application development and have the knowledge and skills to creatively tackle your own ambitious projects with PHP What you will learn Set up a development environment and write your first PHP scripts Use inheritance encapsulation polymorphism and other OOP concepts Use HTTP and understand the request response cycle of an application Perform file operations and interact with external databases Deal with application errors and handle exceptions Use third party libraries and manage dependencies Connect your application to web services to allow for data exchange Who this book is for This book on PHP for beginners will help you if you re just getting started with PHP Although prior programming experience is not necessary a basic understanding of HTML CSS and JavaScript will help you grasp the concepts covered more easily **Professional PHP Design Patterns** Aaron Saray, 2009-08-24 **Multi-Tier Application**

Programming with PHP David Wall, 2004-06-25 While many architects use PHP for projects they are often not aware of the power of PHP in creating enterprise level applications This book covers the latest version of PHP version 5 and focuses on its capabilities within a multi tier application framework It contains numerous coding samples and commentaries on them A chapter discusses object orientation in PHP as it applies to the multi tier architecture and other chapters discuss HTTP and SOAP the two communication protocols most useful in tying together multiple layers There is also coverage of database design and query construction as well as information about tricks you can use in generating user interfaces Covers PHP as it relates to developing software in a multi tier environment a crucial aspect of developing robust software with low cost and ease of use as design goals Makes extensive use of Simple Object Access Protocol SOAP and Web Services as implemented in PHP and NuSOAP Shows precisely how to make use of the InnoDB table type newly available in MySQL InnoDB supports true referential integrity and row level locking An application example a multi currency bookkeeping application runs throughout the book showing various PHP capabilities as well as the database interaction **Building Real World Php Applications**

Andrea Mauro Raimondi, 2021-03-08 A practical guide to web programming What will you find in this book A practical step by step guide for creating web applications Knowledge of HTML The really useful TAGs for creating web pages Knowing and using PHP language The main functions of PHP and how to use them in practice Understanding databases and how to use MySQL Create your first database with MySQL through concrete examples Create a website to display products Put your knowledge into practice by creating a real website step by step Create a Back Office area for product management How to

create and manage a truly functional Back Office area Download all the website and back office code Use the web application code immediately modify it and use it for your works Some topics covered HTML tags with particular focus on HTML forms Using PHP in practice Use MySQL database Creation of a website to display products Creation of a Back Office area for the management of categories and products Interactions with MySQL database Main PHP functions The SQL calls you need most All code ready to use Create your first web application Who is this book for A practical guide to web programming with PHP HTML and MySQL For beginners or for those who want to improve their use of the language By creating a real web application you will learn how to use HTML and PHP For those who want to start programming Understand how to use HTML and PHP and start programming now For those who already know PHP Learn the secrets from those who have been using PHP for over 20 years For those who want to understand how web applications work By creating a real web app For those who don't have time to waste Little theory a lot of practice and above all code that you can reuse The Author Andrea Raimondi has been a PHP Programmer for over 20 years Over the years he has created all kinds of web applications from a simple website to complex e commerce A guide to web programming Learn HTML PHP and the MySQL database by building your first web application step by step Learn by doing By creating a real back office area to manage users categories and products and the related website you will learn to program in PHP learning the HTML language necessary to write web pages and use the MySQL database to manage the data The site and the back office area are online and you can request all the code used for free Once downloaded the code can be used freely and you can create your applications and find your first customers In the appendix the main PHP functions the main SQL commands to avoid being overwhelmed by useless technicalities just what you need

Real-World Solutions for Developing High-Quality PHP Frameworks and Applications Sebastian Bergmann, Stefan Pribsch, 2011-04-18 Learn to develop high quality applications and frameworks in PHP Packed with in depth information and step by step guidance this book escorts you through the process of creating maintaining and extending sustainable software of high quality with PHP World renowned PHP experts present real world case studies for developing high quality applications and frameworks in PHP that can easily be adapted to changing business requirements They offer different approaches to solving typical development and quality assurance problems that every developer needs to know and master Details the process for creating high quality PHP frameworks and applications that can easily be adapted to changing business requirements Covers the planning execution and automation of tests for the different layers and tiers of a Web application Demonstrates how to establish a successful development process Shares real world case studies from well known companies and their PHP experts With this book you'll learn to develop high quality PHP frameworks and applications that can easily be maintained with reasonable cost and effort

Advanced Guide to PHP on IBM i Kevin Schroeder, 2014-04 Working through many of the concepts and skills needed by intermediate and advanced PHP developers this book is specifically designed to help good PHP developers become indispensable ones Topics include

debugging test driven development web based development advanced object oriented programming and web security and the book also takes an in depth look at the new PHP Toolkit for IBM i provided by Zend Technologies Upon completion of this book readers will be able to use its principles as a basis for architecting complex applications building web services according to the best standards currently available significantly reducing the time spent discovering and fixing errors in code designing architectures that are testable and predictable building secure applications by protecting against most known attacks and avoiding and preparing for common performance issues

Unlocking PHP 8+ John Riley,2025-01-08 This book is a practical guide for PHP developers who want to build and deploy robust maintainable web applications It s perfect if you re working on complex projects and want to avoid the headaches of messy code and difficult to fix bugs Here s what you ll learn Planning your project You ll discover how to take a project from initial idea to a clear plan using tools like Jira to organize tasks and requirements This ensures everyone is on the same page and the project stays on track Writing clean testable code The book guides you through test driven development TDD and behavior driven development BDD This means you ll learn to write automated tests before you write your code ensuring fewer bugs and making it easier to add new features later on SOLID principles You ll learn about SOLID principles a set of guidelines for writing code that is easier to understand change and maintain over time Automating the process The book covers continuous integration and continuous delivery which automate tasks like testing and deployment saving you time and reducing errors This book is ideal for you if You re a PHP developer with some experience in object oriented programming You re working on or about to start large complex web applications You want to improve the quality and maintainability of your code By the end of the book you ll be able to Confidently plan and structure your PHP projects Write cleaner more testable code using TDD and BDD Apply SOLID principles to improve your code design Automate testing and deployment processes for greater efficiency This book focuses on practical skills and techniques you can use immediately in your projects It s written in a clear concise style that s easy to understand even if you re new to concepts like TDD and BDD

Beginning PHP 5.3 Matt Doyle,2011-01-06 This book is intended for anyone starting out with PHP programming If you ve previously worked in another programming language such as Java C or Perl you ll probably pick up the concepts in the earlier chapters quickly however the book assumes no prior experience of programming or of building Web applications That said because PHP is primarily a Web technology it will help if you have at least some knowledge of other Web technologies particularly HTML and CSS Many Web applications make use of a database to store data and this book contains three chapters on working with MySQL databases Once again if you re already familiar with databases in general and MySQL in particular you ll be able to fly through these chapters However even if you ve never touched a database before in your life you should still be able to pick up a working knowledge by reading through these chapters

Learn CakePHP Rādhārādhya Dāsa,2016-08-22 Accelerate your development of PHP applications using the popular CakePHP web application development framework and unit testing This short book shows you

how to carry out test driven development with fixtures model tests controller tests mocks and test suites Learn CakePHP contains all you need to get started with the CakePHP framework to build faster better PHP based web applications You ll learn about unit testing and how to implement it in CakePHP This approach to coding leads to better code better applications and better programming habits With this knowledge your PHP skills will go from strength to strength allowing you to write more and improved code What you ll learn What is unit testing and CakePHP and how to put the two together What is clean coding What is TDD and the development cycle using this approach How to work with fixtures model tests text callbacks controller tests and more How to do mocks test suites testing from the command line and more How to work with code coverage fixtures data and private methods Who this book is for This book is for experienced PHP programmers and web developers who have little or no experience using CakePHP and or unit testing

The Complementary PHP Testing Tools Cookbook Chris Hartjes,2021-11-15 **Professional PHP** Patrick Louys,2018-02-08 In this book you will learn how to write clean and maintainable object oriented code start a new project from scratch implement a layered architecture protect your application from XSS CSRF and other attacks The book is structured as a tutorial and will guide you through the steps of building a modern web application from scratch It will provide you with solid software development knowledge that you can then use as a foundation to learn more advanced approaches like domain driven design It s a 212 page book and consists of a theory and a tutorial part Everything in the book is framework agnostic and you can apply what you learn to your favorite framework You will learn how to write clean code that stands the test of time At the end of the book you will know how to implement a layered architecture from scratch and how you can protect your application from the most common attack vectors This is the book that I wanted to read when I first learned about clean code

[The Joy of PHP](#) Alan Forbes,2015-12-04 Third Edition now with bonus chapters Have you ever wanted to design your own website or browser application but thought it would be too difficult or just didn t know where to start Have you found the amount of information on the Internet either too daunting or not geared for your skill set or worse just plain boring Are you interested in learning to program PHP and have some fun along the way If so then The Joy of PHP by Alan Forbes is the book for you Alan starts with some basic HTML so the absolute beginner can catch up quickly and then goes step by step on how PHP works You start with the easy stuff like how to create and run simple PHP scripts that modify web pages and then build on what you ve learned through a series of cohesive and fun exercises that carry over from lesson to lesson As the chapters progress you begin to build a web site for a growing used car dealership business This approach keeps the material fun and challenging and gives what you ve learned a context to be relevant A car dealership needs a constantly changing web site because the inventory of cars is always changing HTML is not the answer for this kind of web site but PHP and MySQL are Throughout the book you will be working with the web site for the car dealership and adding features and modifying it as the needs of the business and your knowledge grow This writing style reinforces the previous lessons and keeps you engaged in a real project giving you

both a sense of accomplishment and an opportunity to apply what you've learned to a realistic scenario. You are far more likely to retain what you've learned using this approach than just reading dry syntax documentation. The author has an easy and fun style of writing that teaches you PHP in a simple matter of fact manner while showing you the most common uses of the commands you need to get the job done. This keeps your learning pace quick and uncluttered. If you need it, he also points you to several resources where you can learn more about the other options a PHP function can offer and even better how to read and understand those resources. If you want to learn the PHP language in an easy, enjoyable, well-laid-out manner and to learn why PHP and MySQL are so powerful and fun to use, then buy this book. Do not buy this book if you are looking for a comprehensive reference of boring PHP syntax. This book does not attempt to cover everything about PHP. What it does do and does well is take you from being a beginner who isn't even sure what PHP is to someone who knows the sheer joy that only programming dynamic sites can provide. You will become someone who can read, write, and modify PHP scripts and you will be able to make your website come alive. Bonus Code: All the source code referenced in the book is available for easy download and well organized. You don't have to cut and paste out of Kindle or retype code unless you want to. There is even a video tutorial showing how to get started. Topics Covered: Installing and configuring PHP, Introduction to HTML, Basic PHP Syntax, Some Fun Right Away, Editors and Staying Organized, Variables, Numbers, Dates, and Strings, Control Structures, How to use a database such as MySQL, Using PHP and MySQL Together, How to create forms to Display, Add, Edit, and Delete data, Session Variables, Working with Images, PHP File Uploads, PHP Quirks and Tips, Security Considerations. This book is NOT the only book you'll ever need to read to master PHP. The book is a gentle introduction to a very rich topic. The hope of the author is to show you that PHP isn't really that scary; after all, it is something YOU can do, and it can even bring you joy once you get it.

PHP: A BEGINNER'S GUIDE Vikram Vaswani, 2008-10-02. Essential Skills Made Easy. Learn how to build dynamic data-driven Web applications using PHP. Covering the latest release of this cross-platform open source scripting language. PHP: A Beginner's Guide teaches you how to write basic PHP programs and enhance them with more advanced features such as MySQL and SQLite database integration, XML input, and third-party extensions. This fast-paced tutorial provides one-stop coverage of software installation, language syntax, and data structures, flow control, routines, built-in functions, and best practices. Designed for Easy Learning. Key Skills Concepts Lists of specific skills covered in the chapter. Ask the Expert Q & A sections filled with bonus information and helpful tips. Try This Hands-on exercises that show how to apply your skills. Notes: Extra information related to the topic being covered. Tips: Helpful reminders or alternate ways of doing things. Cautions: Errors and pitfalls to avoid. Self Tests: Chapter ending quizzes to test your knowledge. Annotated Syntax: Example code with commentary that describes the programming techniques being illustrated. [Securing PHP Web Applications](#) Tricia Ballard, William Ballard, 2008-12-16. Easy Powerful Code Security Techniques for Every PHP Developer. Hackers specifically target PHP Web applications. Why? Because they know many of these apps are written by programmers with little or no

experience or training in software security Don't be victimized Securing PHP Web Applications will help you master the specific techniques skills and best practices you need to write rock solid PHP code and harden the PHP software you're already using Drawing on more than fifteen years of experience in Web development security and training Tricia and William Ballard show how security flaws can find their way into PHP code and they identify the most common security mistakes made by PHP developers The authors present practical specific solutions techniques that are surprisingly easy to understand and use no matter what level of PHP programming expertise you have Securing PHP Web Applications covers the most important aspects of PHP code security from error handling and buffer overflows to input validation and filesystem access The authors explode the myths that discourage PHP programmers from attempting to secure their code and teach you how to instinctively write more secure code without compromising your software's performance or your own productivity Coverage includes Designing secure applications from the very beginning and plugging holes in applications you can't rewrite from scratch Defending against session hijacking fixation and poisoning attacks that PHP can't resist on its own Securing the servers your PHP code runs on including specific guidance for Apache MySQL IIS SQL Server and more Enforcing strict authentication and making the most of encryption Preventing dangerous cross site scripting XSS attacks Systematically testing your applications for security including detailed discussions of exploit testing and PHP test automation Addressing known vulnerabilities in the third party applications you're already running Tricia and William Ballard demystify PHP security by presenting realistic scenarios and code examples practical checklists detailed visuals and more Whether you write Web applications professionally or casually or simply use someone else's PHP scripts you need this book and you need it now before the hackers find you

You Want to Do What in PHP? Kevin Schroeder, 2010 A creative look at the fundamentals of PHP programming this manual shows practical but atypical examples of PHP code Theories considerations and varying options such as binary protocols sharing data extending PHP with Java and scaling PHP applications with messaging are presented as new approaches to solving problems Taking into consideration operating system level options this programming reference goes beyond the basics to offer more advanced and innovative options for building PHP applications

The Grumpy Programmer S Guide To Building Testable Php Applications: Bestsellers in 2023 The year 2023 has witnessed a remarkable surge in literary brilliance, with numerous captivating novels captivating the hearts of readers worldwide. Lets delve into the realm of top-selling books, exploring the engaging narratives that have charmed audiences this year. The Must-Read : Colleen Hoover's "It Ends with Us" This heartfelt tale of love, loss, and resilience has gripped readers with its raw and emotional exploration of domestic abuse. Hoover expertly weaves a story of hope and healing, reminding us that even in the darkest of times, the human spirit can triumph. Uncover the Best : Taylor Jenkins Reids "The Seven Husbands of Evelyn Hugo" This spellbinding historical fiction novel unravels the life of Evelyn Hugo, a Hollywood icon who defies expectations and societal norms to pursue her dreams. Reids absorbing storytelling and compelling characters transport readers to a bygone era, immersing them in a world of glamour, ambition, and self-discovery. The Grumpy Programmer S Guide To Building Testable Php Applications : Delia Owens "Where the Crawdads Sing" This mesmerizing coming-of-age story follows Kya Clark, a young woman who grows up alone in the marshes of North Carolina. Owens weaves a tale of resilience, survival, and the transformative power of nature, captivating readers with its evocative prose and mesmerizing setting. These bestselling novels represent just a fraction of the literary treasures that have emerged in 2023. Whether you seek tales of romance, adventure, or personal growth, the world of literature offers an abundance of compelling stories waiting to be discovered. The novel begins with Richard Papen, a bright but troubled young man, arriving at Hampden College. Richard is immediately drawn to the group of students who call themselves the Classics Club. The club is led by Henry Winter, a brilliant and charismatic young man. Henry is obsessed with Greek mythology and philosophy, and he quickly draws Richard into his world. The other members of the Classics Club are equally as fascinating. Bunny Corcoran is a wealthy and spoiled young man who is always looking for a good time. Charles Tavis is a quiet and reserved young man who is deeply in love with Henry. Camilla Macaulay is a beautiful and intelligent young woman who is drawn to the power and danger of the Classics Club. The students are all deeply in love with Morrow, and they are willing to do anything to please him. Morrow is a complex and mysterious figure, and he seems to be manipulating the students for his own purposes. As the students become more involved with Morrow, they begin to commit increasingly dangerous acts. The Secret History is a masterful and thrilling novel that will keep you wondering until the very end. The novel is a cautionary tale about the dangers of obsession and the power of evil.

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The Grumpy Programmer S Guide To Building Testable Php Applications Introduction

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