Test-Driven IOS Development With Swift

Test-Driven iOS Development with Swift

Create fully-featured and highly functional iOS apps by writing tests first

Dr. Dominik Hauser

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Synopsis

Key FeaturesLearn test-driven principles to help you build apps with fewer bugs and better designsBecome more efficient while working with Swift to move on to your next project faster!Learn how to incorporate all of the principles of test-driven development (TDD) in to your daily programming workflowBook DescriptionTest-driven development (TDD) is a proven way to find software bugs early. Writing tests before your code improves the structure and maintainability of your app.Test-driven iOS Development with Swift will help you understand the process of TDD and how it impacts your applications written in Swift. Through practical, real-world examples, you'll start seeing how to implement TDD in context. We will begin with an overview of your TDD workflow and then deep-dive into unit testing concepts and code cycles. We will showcase the workings of functional tests, which will help you improve the user interface. Finally, you will learn about automating deployments and continuous integration to run an environment.What You Will LearnImplement TDD in swift application developmentGet to know the fundamentals, life cycle, and benefits of TDDExplore the tools and frameworks to effectively use TDDDevelop models and controllers driven by testsConstruct the network layer using stubsUse functional tests to ensure the app works as plannedAutomate and streamline the building, analysing, testing, and archiving of your iOS appsAbout the AuthorDr. Dominik Hauser completed his PhD in physics at Heidelberg University, Germany. While working as a university professor, he started iOS development in his spare time. His first app on physics has been an astounding success worldwide. Since then, he's turned himself into a full-time iOS developer, crediting a number of successful apps to his name. He has been a Swift developer since day one and runs a blog on iOS development at http://swiftandpainless.com/.Table of ContentsYour First Unit TestsPlanning and Structuring Your Test-Driven iOS AppA Test-Driven Data ModelA Test-Driven View ControllerTesting Network CodePutting It All TogetherCode Coverage and Continuous IntegrationWhere to Go from Here

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Customer Reviews

I have always had trouble of understanding TDD. I know that tests are an important tool to creating clean code that works well but its hard to know what to test and how to go about it especially with view controllers, storyboards, network layers and everything else that goes into iOS development. This book addressed all those issues as well as some new features that swift offers. I really enjoyed his examples, everything was clear and I didn't have any unanswered questions by the end of the book. The author is a nice guy that is responsive on twitter as well. Definetly a must read for any iOS developer wanting to improve their skills.

This is very well written introduction and overview to TDD. The clear logic of the content and good choice of topics is refreshing. The book was not rush through; there is great attention to the details and to make TDD as understandable as possible. The lecturer background of Dr Hauser shine throughout and will be appreaciated by the reader. The why, the what and the how are covered. I particularly loved that the concepts are introduced and thought around building and app. This makes the material very practical and the reader is readily equiped with techniques she/he can start using in is own application. If you have ever wonder what is the fuss about TDD, I highly recommend this book. It was a delight to read for me and finally helped me understand a topic I was scared to digg into. Now I am looking forward to master TDD :-D

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