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Objective C Memory Management Essentials

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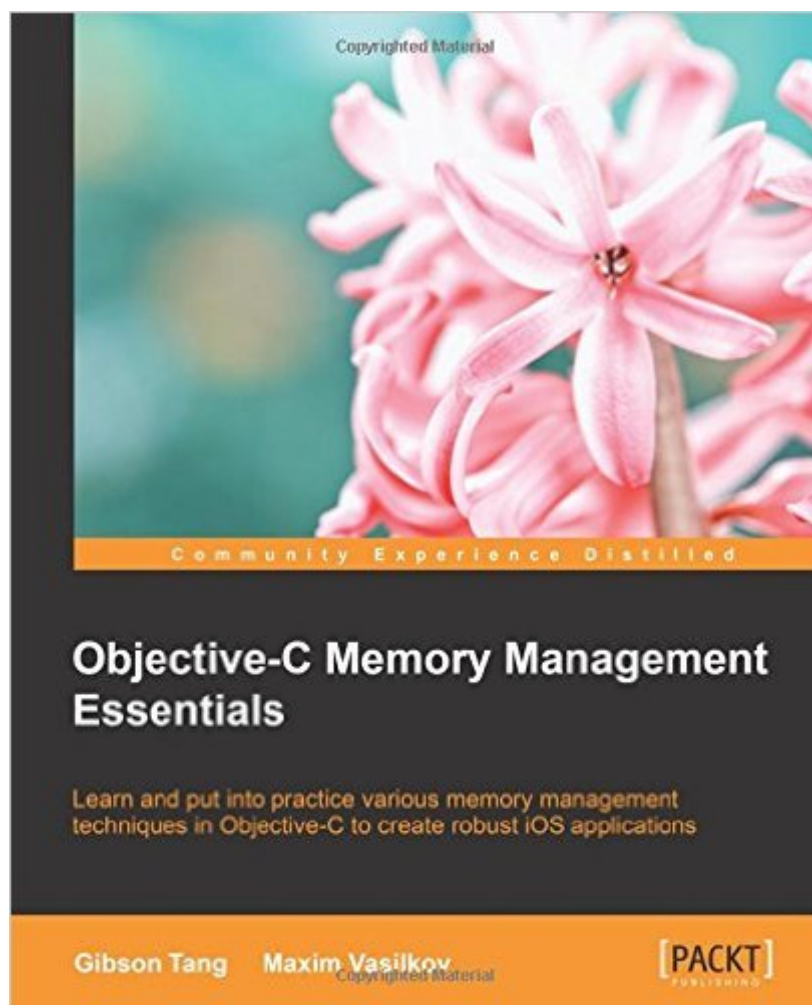
Objective-C Memory Management Essentials

Learn and put into practice various memory management techniques in Objective-C to create robust iOS applications

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Synopsis

Learn and put into practice various memory management techniques in Objective-C to create robust iOS applications About This BookLearn about the concepts of memory management in Objective-CGet introduced to Swift, an innovative new programming language for Cocoa and Cocoa TouchA step-by-step approach to various memory management techniques with lots of sample code and Xcode projects for your referenceWho This Book Is ForIf you are new to Objective-C or a veteran in iOS application development, this is the book for you. This book will ensure that you can actively learn the methods and concepts in relation to memory management in a more engaging way. Basic knowledge of iOS development is required for this book.What You Will Learn Understand the theoretical basics of memory management Discover how and why memory leaks occur Use Objective-C to stem memory leaks in your application Familiarize yourself with the various memory debugging tools available in Xcode Implement data persistence using Core Data Understand how ARC helps in memory management Introduce yourself to Swift, the brand new programming language to write effective, lightning-fast applications In DetailObjective-C Memory Management Essentials will familiarize you with the basic principles of Objective-C memory management, to create robust and effective iOS applications. You will begin with a basic understanding of memory management, and why memory leaks occur in an application, moving on to autorelease pools and object creation/storage to get an idea of how memory is allocated. You will also see what ARC (Automatic Reference Counting) is and how it helps in memory management. Finally, you will cover examples on how to use the various tools provided by Xcode to help in memory management. You will also get a basic understanding of Swift, the recently introduced programming language to write interactive and lightning-fast applications.By the end of this book, you will have all the necessary knowledge on how to effectively memory-manage your application with best practices.

Book Information

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Customer Reviews

The title is misleading. It is filled with light basics on Objective-C, but very very cursory coverage of memory management issues, and much of it is far out of date since ARC became the standard. I flew through several chapters of very basic stuff, really just beginner level Objective-C. Several times when I thought he was finally going to get to some of the meaty stuff I was looking for, he stopped short and I was left empty handed! It's not fair, in a book with Memory Management in the title, to tell us things like "even with ARC there an be memory leaks..." and then not show us the many ways they can happen other than a cycle.And the real reason I bought this was hoping to gain some deeper insights into how to use the very valuable Xcode tools like the Allocations instrument, along with some examples of using it to track down hard to find memory issues. But all I got was two pages with a little bit of text saying that the Allocations instrument was great for finding memory leaks and so forth, and a screen shot of it, but no instructions or examples whatsoever.This book might be of some use to a beginning Objective-C programmer (and he throws in a cursory chapter on Swift too, for some reason). But don't expect any depth or advanced tips at all!

Each chapter introduces the subject from basic principles through implementation. Complex concepts, such as reference counting, ARC, data persistence, key value coding, etc were presented in a way that I was able to quickly understand, even though I had no experience in these areas nor even in device programming. It introduced new and critical aspects to device programming that I was not familiar with, such as Swift. The book engages the central topic from multiple perspectives: from review of basic concepts and their application to coding (chapters 1-3), to related memory topics such as data persistence (chapter 5-6), and KVC (chapter 7), and then returning to more rigorous review of memory management concepts and their implementation (chapter 9); capped with presentation of the authors' practical experience in memory management (chapter 10). In general, I found this book to be an outstanding combination of theory, practice and experience packaged in such a way that it was readable and useful by an experienced programmer new to device programming. The authors are clearly knowledgeable and comfortable in their field.

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