



# ADVANCED MAC OS X PROGRAMMING

*Second edition of "Core Mac OS X and Cocoa Programming"*

MARK DALRYMPLE AND AARON HILLEGASS

# Mac Os X Programming

**Wallace Wang**



## **Mac OS X Programming:**

Beginning Mac OS X Programming Michael Trent, Drew McCormack, 2005-10-24 Beginning Mac OS X Programming Every Mac OS X system comes with all the essentials required for programming free development tools resources and utilities However finding the place to begin may be challenging especially if you have no prior development knowledge This comprehensive guide offers you an ideal starting point to writing programs on Mac OS X with coverage of the latest release 10.4 Tiger With its hands on approach the book examines a particular element and then presents step by step instructions that walk you through how to use that element when programming You ll quickly learn how to efficiently start writing programs on Mac OS X using languages such as C Objective C r and AppleScript r technologies such as Carbon r and Cocoa r and other Unix tools In addition you ll discover techniques for incorporating the languages in order to create seamless applications All the while you can follow along on your own system so that you ll be prepared to apply your new Mac OS X skills to real world projects What you will learn from this book The major role the new Xcode plays in streamlining Mac OS X development The process for designing a graphical user interface on Mac OS X that conforms to Apple s guidelines How to write programs in the C and Objective C programming languages The various scripting languages available on the Mac OS X system and what tasks each one is best suited to perform How to write shell scripts that interact with pre installed command line tools Who this book is for This book is for novice programmers who want to get started writing programs that run on Mac OS X Experienced programmers who are new to the Mac will also find this book to be a useful overview of the Mac development environment Wrox Beginning guides are crafted to make learning programming languages and technologies easier than you think providing a structured tutorial format that will guide you through all the techniques involved Mac OS X Programming Dan Parks Sydow, 2002 Mac OS X Programming Techniques provides the reader with definitions details and explanations of the various components that make up this new operating system Understanding the operating system helps the reader use the programming tools and the Carbon application programming interface API both of which are covered extensively in this book Much of the original programming API now referred to as the Classic API is still usable But it s been revamped and renamed it s now the Carbon API This modified set of functions includes plenty of new routines that make a Mac programmer s work easier and more powerful provided that the programmer knows how to make use of the new code The reader learns about the all new Carbon Event Manager as well as the changes and enhancements that have been made to existing managers such as the Window Manager and the Menu Manager Readers new to Mac programming will appreciate the journey that takes them from the start of a new Macintosh project to the final building of a standalone Mac OS X application Readers experienced in programming the Mac will find this same material of great interest and these readers will benefit from the lengthy section on porting existing Mac OS 8 and 9 applications to Mac OS X Finally readers will appreciate the Carbon API reference section that provides information and example code for dozens of the most commonly used Carbon

routines All the code developed in the book will be available on [www.newriders.com](http://www.newriders.com)

**Concurrent Programming in Mac OS X and iOS** Vandad Nahavandipoor, 2011-05-31 Now that multicore processors are coming to mobile devices wouldn't it be great to take advantage of all those cores without having to manage threads This concise book shows you how to use Apple's Grand Central Dispatch GCD to simplify programming on multicore iOS devices and Mac OS X Managing your application's resources on more than one core isn't easy but it's vital Apps that use only one core in a multicore environment will slow to a crawl If you know how to program with Cocoa or Cocoa Touch this guide will get you started with GCD right away with many examples to help you write high performing multithreaded apps Package your code as block objects and invoke them with GCD Understand dispatch queues the pools of threads managed by GCD Use different methods for executing UI and non UI tasks Create a group of tasks that GCD can run all at once Instruct GCD to execute tasks only once or after a delay Discover how to construct your own dispatch queues *Advanced Mac OS X Programming* Mark Dalrymple, Aaron Hillegass, 2005 There are several other books on programming for Mac OS X but none of them contain explanations of how to leverage the powerful underlying technologies This book goes down to the real nitty gritty of multithreading interprocess communication networking performance tuning distributed objects queues Bonjour authentication the keychain and directory services The tools are also covered gcc gdb subversion Shark and Saturn

**Cocoa Programming for Mac OS X** Aaron Hillegass, Adam Preble, 2011-11-09 The best selling introduction to Cocoa once again updated to cover the latest Mac programming technologies and still enthusiastically recommended by experienced Mac OS X developers Cocoa Programming for Mac OS X is considered by most to be the de facto intro to OS X programming text Bob Rudis the Apple Blog I would highly recommend this title to anyone interested in Mac development Even if you own the previous edition I think you'll find the new and revised content well worth the price Bob McCune [bobmccune.com](http://bobmccune.com) If you're developing applications for Mac OS X Cocoa Programming for Mac OS X Fourth Edition is the book you've been waiting to get your hands on If you're new to the Mac environment it's probably the book you've been told to read first Covering the bulk of what you need to know to develop full featured applications for OS X written in an engaging tutorial style and thoroughly class tested to assure clarity and accuracy it is an invaluable resource for any Mac programmer Specifically Aaron Hillegass and Adam Preble introduce the two most commonly used Mac developer tools Xcode and Instruments They also cover the Objective C language and the major design patterns of Cocoa Aaron and Adam illustrate their explanations with exemplary code written in the idioms of the Cocoa community to show you how Mac programs should be written After reading this book you will know enough to understand and utilize Apple's online documentation for your own unique needs And you will know enough to write your own stylish code Updated for Mac OS X 10.6 and 10.7 this fourth edition includes coverage of Xcode 4 blocks view based table views Apple's new approach to memory management Automatic Reference Counting and the Mac App Store This edition adds a new chapter on concurrency and expands coverage of Core Animation The book now devotes a

full chapter to the basics of iOS development      **macOS Programming for Absolute Beginners** Wallace Wang, 2017-02-28 Learn how to code for the iMac Mac mini Mac Pro and MacBook using Swift Apple's hottest programming language Fully updated to cover the new MacBook Touch Bar macOS Programming for Absolute Beginners will not only teach complete programming novices how to write macOS programs but it can also help experienced programmers moving to the Mac for the first time You will learn the principles of programming how to use Swift and Xcode and how to combine your knowledge into writing macOS programs If you've always wanted to learn coding but felt stymied by the limitation of simplistic programming languages or intimidated by professional but complicated programming languages then you'll want to learn Swift Swift is your gateway to both Mac and iOS app development while being powerful and easy to learn at the same time and macOS Programming for Absolute Beginners is the perfect place to start add it to your library today What You'll Learn

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*Cocoa Programming for Mac OS X* Aaron Hillegass, 2004 Harness the power of Cocoa's object oriented software development environment with this book that is completely updated for Mac OS X 10.2 Cocoa has quickly gained recognition as the leading development framework for building OS X applications Users will understand the common features found in Cocoa's tools InterfaceBuilder ProjectBuilder the GCC compiler and the GDB debugger      **Beginning Mac OS X Snow Leopard Programming** Michael Trent, Drew McCormack, 2010-03-25 A solid introduction to programming on the Mac OS X Snow Leopard platform The Mac OS X Snow Leopard system comes with everything you need in its complete set of development tools and resources However finding where to begin can be challenging This book serves as an ideal starting point for programming on the Mac OS X Snow Leopard platform Step by step instructions walk you through the details of each featured example so that you can type them out run them and even figure out how to debug them when they don't work right Taking into account that there is usually more than one way to do something when programming the authors encourage you to experiment with a variety of solutions This approach enables you to efficiently start writing programs in Mac OS X Snow Leopard using myriad languages and put those languages together in order to create seamless applications Coverage Includes The Mac OS X Environment Developer Tools Xcode Interface Builder The C Language The Objective C Language An Introduction to Cocoa Document Based Cocoa Applications Core Data Based Cocoa Applications An Overview of Scripting Languages The Bash Shell AppleScript and AppleScriptObjC Javascript Dashboard and Dashcode Note CD ROM DVD and other supplementary materials are not included as part of eBook file      **Advanced Mac OS X Programming** Mark Dalrymple, 2011-08-18 While

there are several books on programming for Mac OS X Advanced Mac OS X Programming The Big Nerd Ranch Guide is the only one that contains explanations of how to leverage the powerful underlying technologies This book gets down to the real nitty gritty The third edition is updated for Mac OS X 10.5 and 10.6 and covers new technologies like DTrace Instruments Grand Central Dispatch blocks and NSOperation

*Learn Objective-C on the Mac* Scott Knaster, Mark Dalrymple, Waqar Malik, 2012-08-10 Learn to write apps for some of today's hottest technologies including the iPhone and iPad using iOS as well as the Mac using OS X It starts with Objective C the base language on which the native iOS software development kit SDK and the OS X are based Learn Objective C on the Mac For OS X and iOS Second Edition updates a best selling book and is an extensive newly updated guide to Objective C Objective C is a powerful object oriented extension of C making this update the perfect follow up to Dave Mark's bestselling Learn C on the Mac Whether you're an experienced C programmer or you're coming from a different language such as C or Java leading Mac experts Scott Knaster and Waqar Malik show how to harness the power of Objective C in your apps A complete course on the basics of Objective C using Apple's newest Xcode tools An introduction to object oriented programming Comprehensive coverage of new topics like blocks GCD ARC class extensions as well as inheritance composition object initialization categories protocols memory management and organizing source files An introduction to building user interfaces using what is called the UIKit A primer for non C programmers to get off the ground even faster

**Cocoa Programming for Mac OS X For Dummies** Erick Tejkowski, 2009-03-09 Cocoa programming is not only the favored development environment for Mac OS X it's also a primary tool for creating iPhone and iPod Touch software That makes this a great time to learn Cocoa and Cocoa Programming for Mac OS X For Dummies is the ideal place to start This book gives you a solid foundation in Cocoa and the unusual syntax of Objective C You'll learn what's new in Cocoa frameworks and create an application step by step For example you can See how Xcode underlies your applications as the main component of Apple's IDE Examine the basics of the Objective C language the elements of a Cocoa interface and object oriented programming Use Xcode and Interface Builder Spruce up your apps with audio video Internet features stylized text and more Create applications with the stunning graphics for which Macs are famous See how to build apps with multiple documents and even executables that aren't traditional Mac apps Use all the exciting new Cocoa features Work with Cocoa numbers arrays Booleans and dates Build document based applications Simplify with key value coding The better you understand Cocoa programming the better the applications you can create for Mac OS X iPhone and iPod Touch Cocoa Programming for Mac OS X For Dummies makes it easy and fun Note CD ROM DVD and other supplementary materials are not included as part of eBook file

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developer tools Xcode and Instruments They also cover the Swift language basic application architecture and the major design patterns of Cocoa Examples are illustrated with exemplary code written in the idioms of the Cocoa community to show you how Mac programs should be written After reading this book you will know enough to understand and utilize Apple's online documentation for your own unique needs And you will know enough to write your own stylish code This edition was written for Xcode 6.3 and Swift 1.2 At WWDC 2015 Apple announced Xcode 7 and Swift 2 both of which introduce significant updates that along with some changes to Cocoa for OS X 10.11 affect some of the exercises in this book We have prepared a companion guide listing the changes needed to use Xcode 7 to work through the exercises in the book it is available at <https://github.com/bignerdranch/cocoa-programming-for-osx-5e/blob/master/Swift2.md>

*Mac OS X Developer's Guide* Jesse Feiler, 2001-10-16 Mac OS X Apple's newest operating system for the Macintosh platform is profoundly different from its earlier versions because of its similarity to the UNIX operating system For developers writing software for OS X this means adjusting to two new environments to create applications and to access the enhanced features of the new OS Cocoa and Carbon Cocoa is an object oriented API in which all future OS X programs will be written Carbon is a transitional technology allowing compatibility of applications written for earlier versions of the Mac OS with Mac OS X Mac OS X Developer's Guide focuses equally on Cocoa and Carbon guiding the reader through these technologies and showing how to write applications in both It is the first book for Mac OS X developers written for those who are already working on applications as well as new developers just getting started It starts off describing the new OS and its development tools then focuses on specific programming issues providing tips on making the transition from classic Mac OS code to Mac OS X A guide for developers already writing applications as well as new developers just getting started Focuses equally on both Cocoa and Carbon environments Provides tips on transitioning from writing code for classic Mac OS to OS X References Apple online materials extensively to keep developers up to speed on changes

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the expert on C programming for the Mac Presents all the basics with a pragmatic Mac OS X flavored approach Includes updated source code which is fully compatible with Xcode 4      *More Cocoa Programming for Mac OS X* Aaron Hillegass, Juan Pablo Claude, 2013-02-04 There s a fast growing audience of Mac OS X developers who are getting comfortable with Apple s Cocoa framework and now want to take their skills to the next level Many of them began with Aaron Hillegass s classic book Cocoa Programming for Mac OS X Now in More Cocoa Programming The Big Nerd Ranch Guide Hillegass and colleague Juan Pablo Claude show experienced Cocoa developers how to build Cocoa applications that work better and do more than ever before Starting from a basic sample application you will walk through adding powerful new functionality one step at a time As you do you ll master valuable Cocoa tips and tricks that can t be found in any other book The authors detailed example rich coverage includes Uncovering the secrets of Cocoa s text system and making the most of it Incorporating support for Spotlight Quick Look AppleScript and other advanced OS X platform technologies Providing more effective help and accessibility features Delivering applications as packages Implementing automatic updates via Sparkle Using unit testing to deliver more reliable code Incorporating graphics and animations into your software and much more This title is part of the new Big Nerd Ranch Guides series the world s best books on Mac and iOS development straight from the world s 1 Mac programming trainers Aaron Hillegass and Big Nerd Ranch      Mastering macOS Programming Stuart Grimshaw, 2017-05-31 Take your macOS Sierra to the next level using the latest tools designs and best coding practices while developing with Swift 3 0 About This Book Learn to harness the power of macOS with the elegance of the Swift programming language Become highly competent in building apps on the macOS platform Get the most in depth guide with a hands on approach on the latest version of macOS Who This Book Is For This book is for developers who have some experience with macOS and want to take their skills to next level by unlocking the full potential of latest version of macOS with Swift 3 to build impressive applications Basic knowledge of Swift will be beneficial but is not required What You Will Learn Combine beautiful design with robust code for the very best user experience Bring the best coding practices to the new macOS Sierra See what s new in Swift 3 0 and how best to leverage the Swift language Master Apple s tools including Xcode Interface Builder and Instruments Use Unix and other common command line tools to increase productivity Explore the essential Cocoa frameworks including networking animation audio and video In Detail macOS continues to lead the way in desktop operating systems with its tight integration across the Apple ecosystem of platforms and devices With this book you will get an in depth knowledge of working on macOS enabling you to unleash the full potential of the latest version using Swift 3 to build applications This book will help you broaden your horizons by taking your programming skills to next level The initial chapters will show you all about the environment that surrounds a developer at the start of a project It introduces you to the new features that Swift 3 and Xcode 8 offers and also covers the common design patterns that you need to know for planning anything more than trivial projects You will then learn the advanced Swift programming concepts including memory

management generics protocol orientated and functional programming and with this knowledge you will be able to tackle the next several chapters that deal with Apple's own Cocoa frameworks. It also covers AppKit Foundation and Core Data in detail which is a part of the Cocoa umbrella framework. The rest of the book will cover the challenges posed by asynchronous programming error handling debugging and many other areas that are an indispensable part of producing software in a professional environment. By the end of this book you will be well acquainted with Swift Cocoa and AppKit as well as a plethora of other essential tools and you will be ready to tackle much more complex and advanced software projects. Style and approach This comprehensive guide takes a hands on practical approach incorporating a visually rich format rather than a text heavy format. The focus is on teaching the core concepts through a series of small projects and standalone examples so you gain expertise with various aspects of macOS application development.

**Cocoa® Programming for Mac® OS X, Fourth Edition** Aaron Hillegass, Adam Preble, 2011. The best selling introduction to Cocoa once again updated to cover the latest Mac programming technologies and still enthusiastically recommended by experienced Mac OS X developers. Cocoa Programming for Mac OS X is considered by most to be the de facto intro to OS X programming text. Bob Rudis the Apple Blog I would highly recommend this title to anyone interested in Mac development. Even if you own the previous edition I think you'll find the new and revised content well worth the price. Bob McCune bobmccune.com. If you're developing applications for Mac OS X Cocoa Programming for Mac OS X Fourth Edition is the book you've been waiting to get your hands on. If you're new to the Mac environment it's probably the book you've been told to read first. Covering the bulk of what you need to know to develop full featured applications for OS X written in an engaging tutorial style and thoroughly class tested to assure clarity and accuracy it is an invaluable resource for any Mac programmer. Specifically Aaron Hillegass and Adam Preble introduce the two most commonly used Mac developer tools Xcode and Instruments. They also cover the Objective C language and the major design patterns of Cocoa. Aaron and Adam illustrate their explanations with exemplary code written in the idioms of the Cocoa community to show you how Mac programs should be written. After reading this book you will know enough to understand and utilize Apple's online documentation for your own unique needs. And you will know enough to write your own stylish code. Updated for Mac OS X 10.6 and 10.7 this fourth edition includes coverage of Xcode 4 blocks view based table views Apple's new approach to memory management Automatic Reference Counting and the Mac App Store. This edition adds a new chapter on concurrency and expands coverage of Core Animation. The book now devotes a full chapter to the basics of iOS development.

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