Mac® OS X Programming

Dan Parks Sydow

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Mark Dalrymple

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 1 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   Cocoa Programming for Mac OS X Aaron Hillegass,Adam Preble,2012 Provides step by step instructions for learning Cocoa discussing such topics as Objective C memory management key value coding NSArrayController archiving user defaults and keyboard events   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   **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 multi threading 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,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   Cocoa Programming for OS X Aaron Hillegass,Adam Preble,Nate Chandler,2015-04-16 Covering the bulk of what you need to know to develop full featured applications for OS X this edition is updated for OS X Yosemite 10 10 Xcode 6 and Swift Written in an engaging tutorial style and class tested for clarity and accuracy it is an invaluable resource for any Mac programmer The authors introduce the two most commonly used Mac 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   Swift OS X Programming for Absolute Beginners Wallace Wang,2015-08-11 Swift OS X Programming for Absolute Beginners is your step by step guide to learning how to code using Swift Apple s hottest new programming language This book will not only teach complete programming novices how to write OS X programs but it can also help experienced programmers moving to the Macintosh for the first time You will learn to understand the principles of programming how to use Swift and Xcode and

how to combine your knowledge into writing OS X 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 Macintosh and iOS app development while being powerful and easy to learn at the same time and Swift OS X Programming for Absolute Beginners is the perfect place to start add it to your library today *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 **Cocoa Programming for Mac OS X For Dummies** Erick Tejkowski,2009-03-03 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 *Mac OSX 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 **Learn C on the Mac** David Brown,James Bucanek,2012 Considered a classic by an entire generation of Mac programmers Dave Mark s Learn C on the Mac has been updated for you to include Mac OS X Mountain Lion and the latest iOS considerations Learn C on the Mac For OS X and iOS Second Edition is perfect for beginners learning to program It includes contemporary OS X and iOS examples This book also does the following Provides best practices for programming newbies Presents all the basics with a pragmatic Mac OS X and iOS flavored approach Includes updated source code which is fully compatible with latest Xcode After reading this book you ll be ready to program and build apps using the C language and Objective C will become much easier for you to learn when you re ready to pick that up What you ll learn Master C programming the gateway to programming your Mac iPhone or iPad Write apps for the contemporary Mac OS X interface the cleanest user interface around Write apps for the modern iOS interface one of the two most popular mobile platforms in the world Understand variables and how to design your own data structures Work with the file system Connect to data sources and the Internet How to handle error handling and much more Who this book is for For anyone wanting to learn to program in Mac OS X and iOS including developers new to the Mac and iPhone iPad developers new to C or students entirely new to programming **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

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