

# Beginning Swift Development

Kids' Edition



CHARLES IVAN J. MOZAR

CI SOFTWARE BOOKS

# Beginning Swift Programming

**Nln Lnc,Alexander Aronowitz**



## **Beginning Swift Programming:**

*Beginning Swift* Rob Kerr, Kåre Morstøl, 2018-05-31 Swift greatly simplifies the process of developing applications for Apple devices This book provides you with the essential skills to help you get started with developing applications using Swift

**Key Features** Teaches you how to correctly structure and architect software using Swift Uses real world examples to connect the theory to a professional setting Imparts expertise in the core Swift standard library

**Book Description** Take your first foray into programming for Apple devices with Swift Swift is fundamentally different from Objective C as it is a protocol oriented language While you can still write normal object oriented code in Swift it requires a new way of thinking to take advantage of its powerful features and a solid understanding of the basics to become productive What you will learn Explore the fundamental Swift programming concepts language structure and the Swift programming syntax Learn how Swift compares to other computer languages and how to transform your thinking to leverage new concepts such as optionals and protocols Master how to use key language elements such as strings and collections Grasp how Swift supports modern application development using advanced features such as built in Unicode support and higher order functions Who this book is for If you are seeking fundamental Swift programming skills in preparation for learning to develop native applications for iOS or macOS this book is the best for you You don t need to have any prior Swift knowledge however object oriented programming experience is desired

**Swift** Daniel Bell, 2019-10-10 Do you want to develop iPhone apps but don t know where to start If you want to learn Swift programming from Scratch this short book is for you Learn Swift for iPhone iOS development no programming development experience is required Download your copy NOW

**Book Objectives** This book is about Swift programming The following are the objectives of the author To familiarize you with the basics of Swift programming language To equip you with Swift programming skills both beginner and advanced skills To help you understand the difference between Swift and Objective C To help you appreciate the power of Swift as a programming language for the development of mobile applications Who this Book is for The author intends to benefit any of the following groups of people Anybody who wants to learn basic Swift programming skills Anybody who needs to advance their Swift programming skills Anybody who needs to learn iOS app development for iOS 9 and above Professors lecturers or tutors who are looking to find better ways to explain Swift programming to their students in the simplest and easiest way Students and academicians especially those focusing on Swift programming computer science and software development

**Requirements** The author expects you to have a computer installed with Mac OS X If you don t have a MacBook you can consider creating a Mac OS X virtual machine on your computer

**What is inside the book** SWIFT BASICS SWIFT DATA TYPES SWIFT VARIABLES AND CONSTANTS SWIFT OPERATORS DECISION MAKING SWIFT LOOPS SWIFT FUNCTIONS SWIFT CLASSES SWIFT METHODS SWIFT ARRAYS SWIFT DICTIONARY SWIFT SETS SWIFT CLOSURES

**From the back cover** The author begins by introducing the readers to the foundations of the Swift programming language The aim is to help them the individuals who

developed the language how the Swift compiler works The reader has been guided on what they require so as to program in Swift The author has then discussed the basics of Swift including writing comments writing and running the first Swift program Swift syntax etc The various features provided by Swift have been discussed in depth including data types variables constants loops decision making functions operators object oriented programming features etc The author has organized the book into chapters with each chapter having many sub chapters Swift codes have been added alongside thorough explanations of the code and images showing the expected output upon the execution of every script The author begins with the basics of Swift and ends by discussing the complex features provided by the programming language A step by step approach has been employed in every chapter for ease of understanding

**Beginning Swift** Brent Arnold, Rob Kerr, Kare Morstol, 2018 We'll begin with exploring the fundamental Swift programming concepts language structure and the Swift programming syntax Then we'll learn to create original custom operators with Swift operators branching and loops Moving on we'll learn how to run application codes and compile errors Having made progress with it we'll see how Swift compares to other computer languages and how to transform your thinking Then master the usage of key language elements such as strings and collections Finally grasp how Swift supports modern application development using advanced features such as built-in Unicode support and higher order functions Resource description page

**Beginning Swift Programming** Wei-Meng Lee, 2014-12-04 Enter the Swift future of iOS and OS X programming Beginning Swift Programming is your ideal starting point for creating Mac iPhone and iPad apps using Apple's new Swift programming language Written by an experienced Apple developer and trainer this comprehensive guide explains everything you need to know to jumpstart the creation of your app idea Coverage includes data types strings and characters operators and functions arrays and dictionaries control flow and looping with expert guidance on classes objects class inheritance closures protocols and generics This succinct yet complete overview provides a detailed introduction to the core features of Swift Apple developed Swift to address the limitations of Objective C and add features found in more complex languages like Python The result is simpler cleaner more expressive code with automatic memory management functional programming patterns and more including built-in features that make Swift apps faster scalable and more secure This book explains it all helping developers master Apple's new language Become fluent with syntax that's easier to read and maintain Understand inferred types for cleaner less mistake-prone code Learn the key features that make Swift more expressive than Objective C Learn the new optional types in Swift that make your code more resilient Understand the key design patterns in iOS and Mac OS programming using protocols and delegates Learn how to use generics to create highly reusable code Learn the new access controls mechanism in Swift Get up to speed quickly to remain relevant and ahead of the curve

**Beginning Swift Games Development for iOS** James Goodwill, Wesley Matlock, 2015-03-31 Game apps are one of the most popular categories in the Apple iTunes App Store Well the introduction of the new Swift programming language will make game development even more appealing and easier to

existing and future iOS app developers In response James Goodwill Wesley Matlock and Apress introduce you to this book Beginning Swift Games Development for iOS In this book you ll learn the fundamental elements of the new Swift language as applied to game development for iOS In part 1 you ll start with a basic 2D game idea and build the game throughout the book introducing each SpriteKit topic as we add new functionality to the game By the end of the book you ll have experience with all the important SpriteKit topics and have a fully functional game as a result In part 2 of this book you ll learn 3D game development using Apple s SceneKit framework and the Swift programming language And you ll follow the same pattern we used for part 1 After reading and using this book you ll have the skills and the code to build your first 2D and then 3D game app that you can run on any iOS enabled device and perhaps sell in the Apple iTunes App Store *Swift Programming* Nln Lnc,Alexander Aronowitz,2021-04-29 You ll begin with Swift programming basics including guidelines for making your code Swiftly and learn how to work with Xcode and its built in Interface Builder Then you ll dive step by step into building and customizing a basic app for taking editing and deleting selfies You ll also tune and test the app for performance and manage the app s presence in the App Store Swift is a general purpose multi paradigm object oriented functional imperative and block structured language It is the result of the latest research on programming languages and is built using a modern approach to safety software design patterns by Apple Inc It is the brand new programming language for iOS application macOS application watchOS application tvOS application Soon it became one of top 5 programming language and gained popularity among Apple developer community over the few years of time replacing the old school Objective C What you will learn Understand core Swift components such as operators collections control flows and functions Learn how and when to use classes structures and enumerations Understand how to use protocol oriented design with extensions to write easier to manage code Use design patterns with Swift to solve commonly occurring design problems Apply copy on write for your custom value types to improve performance Add concurrency to your applications using Grand Central Dispatch and Operation Queues Implement generics to write flexible and reusable code Who this book is for This book is for developers who want to delve into the latest version of Swift If you are a developer looking to learn in a practical way by working with code then this book is for you A basic understanding of Apple s tools will be beneficial but not mandatory All examples should work on the Linux platform as well Want To Know More Scroll to the top and select buy [Mastering Swift](#) Sufyan Bin Uzayr,2022 If you want to become an iOS developer you have made an excellent choice with this book Swift holds a significant position in the iOS industry because of the long list of features it serves It is user friendly has great community support and offers a greater extent of customization As a result we can observe a sharp increase in the market demand for developing Apple mobile applications and with that companies search for smart developers with the right skill set Mastering Swift introduces Apple s excellent Swift standard library style and incorporates usage feedback across multiple Swift projects However it should be regarded as a living changeable document and the basis upon which the programming language is

implemented Before going further into the details of the Swift programming language the book briefly explains the basic information about the language It is a high level language created to develop multifaceted iOS applications that cater to diverse needs of different social and business domains It is meant to develop high end apps with multiple complexities But since it is very close to Objective C it is easy to code and understand This feature also makes it incredibly friendly to beginners Moreover it is equally compatible with the iPhone the iPad Apple Watch MacBook and Apple TV and it can be applied to develop equally efficient and scalable apps for them This book in the Mastering series encircles all the essential aspects of Swift and explores why this programming language is the future for iOS app development Different from other languages it requires fewer lines to activate any feature This paves the way for a shorter development cycle and saves a lot of precious resources Further as one of the most reliable iOS programming languages it supports dynamic libraries that indicate executable bits of code that you can link to an application Because of such support Swift apps can interoperate with the newest version of the language to make the app irreplaceable Swift is a language that was not designed but deliberately made open source so as to invite community input allowing the product to grow and to mature over the years This could possibly be the most crucial aspect of Swift As people become more aware of its potential to be used in servers web frameworks were more willing to support the demand Owing to its popularity and significance its adoption rate in Apple s rivals remains very high Whether you are a beginner or an advanced learner if you are planning for iOS app development through Swift this book can help with the high domain expertise and experienced resources Without a doubt the developers that create native apps are not going to abandon Swift anytime soon However it seems like something must evolve for it to keep growing constantly We believe that Swift is indeed the future for iOS app developers And if you are convinced and want to start learning the programming language right away then this book is what you re looking for Learn more about our other Mastering titles at <https://www.routledge.com/Mastering/Computer+Science/book-series/MCS> [Swift Programming](#) Nln Lnc,Alexander Aronowitz,2020-10-14 You ll begin with Swift programming basics including guidelines for making your code Swiftly and learn how to work with Xcode and its built in Interface Builder Then you ll dive step by step into building and customizing a basic app for taking editing and deleting selfies You ll also tune and test the app for performance and manage the app s presence in the App Store Swift is a general purpose multi paradigm object oriented functional imperative and block structured language It is the result of the latest research on programming languages and is built using a modern approach to safety software design patterns by Apple Inc It is the brand new programming language for iOS application macOS application watchOS application tvOS application Soon it became one of top 5 programming language and gained popularity among Apple developer community over the few years of time replacing the old school Objective C What you will learn Understand core Swift components such as operators collections control flows and functions Learn how and when to use classes structures and enumerations Understand how to use protocol oriented design with extensions to write easier to

manage code Use design patterns with Swift to solve commonly occurring design problems Apply copy on write for your custom value types to improve performance Add concurrency to your applications using Grand Central Dispatch and Operation Queues Implement generics to write flexible and reusable code Who this book is for This book is for developers who want to delve into the latest version of Swift If you are a developer looking to learn in a practical way by working with code then this book is for you A basic understanding of Apple s tools will be beneficial but not mandatory All examples should work on the Linux platform as well Want To Know More Scroll to the top and select buy *Beginning Swift Games Development for iOS* James Goodwill, Wesley Matlock, 2017-05-24 Learn the fundamental elements of the new Swift 3 programming language as applied to game development for new iOS 10 In Part 1 of this book you ll start with a basic 2D game idea and build the game throughout the book introducing each SpriteKit topic as you add new functionality to the game By the end of the book you ll have experience with all the important SpriteKit topics and have a fully functional game as a result In Part 2 you ll learn 3D game development using Apple s SceneKit framework and the Swift programming language following the same pattern used for Part 1 Game apps are one of the most popular categories in the Apple iTunes App Store In response James Goodwill and Wesley Matlock bring you *Beginning Swift Games Development for iOS Third Edition* an update to their best selling work After reading and using this book you ll have the skills and the code to build your first 2D and then 3D game app that you can run on any iOS enabled device What you ll learn Discover what s in the new Swift 3 programming language Apply Swift 3 to iOS 10 and 9 game development Build a 2D game app using SpriteKit and Swift Build a 3D game from 2D using SceneKit and Swift Who this book is for iOS app developers new to Swift or for those thinking of trying iOS game app development for the very first time Swift Mg Martin, 2019-05-02 Have you ever wanted to learn how to build IOS apps but don t know where to start Have you tried some of the IOS books and blogs but still you could not get to the end Do you feel like you need some fundamentals skills in Swift for you to get started Well Swift is the new language for you No need to struggle any more Swift will help you create both IOS8 and OSX apps in an intriguing and interesting way If you happen to have some experience working with Objective C you might be asking yourself why shift to Swift After all you have been creating better apps for OS X for some years But did you know that apple had something in store before they released Swift Whether you are an experienced programmer or just starting out in iOS app design this book takes you through all the steps of designing an iOS app If you want to learn how to create outstanding apps that will beat your competitor this book helps you discover the secret From Xcode and Swift the foundation of modern iOS development you will learn the building blocks of designing a great app so that you can dig deep into the app development The Swift programming language is innovative safe and young So how do you stay updated with the latest information and avoid being left behind with the most recent developments Inside you will find from Beginners Intermediate and Advanced Principles of Swift Programming Step by step instructions on building apps Sample XCode projects Basic Introduction to Swift Discover

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languages in tech today Grab your copy of Swift Foundations A Beginner s Guide to the Basics now and start your journey to becoming an Apple Swift developer

**Beginning iOS 10 Programming with Swift 3** Simon Ng,2017-01-09 The Swift Programming Book Over 600 pages The Beginning iOS 10 Programming with Swift ebook available in PDF and ePub formats Source codeThe complete source code and Xcode project of the demo apps you ll build Learn how to code in Swift and build a real world app from scratchNow fully updated for Xcode 8 Swift 3 and iOS 10

**Swift for Beginners** Boisy G. Pitre,2015 NOTE This edition is now out of date and does not conform with the current version of Swift Please check out the newer edition instead which is ISBN 9780134289779 LEARNING A NEW PROGRAMMING LANGUAGE can be daunting With Swift Apple has lowered the barrier of entry for developing iOS and OS X apps by giving developers an innovative new programming language for Cocoa and Cocoa Touch If you are new to Swift this book is for you If you have never used C C or Objective C this book is definitely for you With this hands on guide you ll quickly be writing Swift code using Playgrounds to instantly see the results of your work Author Boisy G Pitre gives you a solid grounding in key Swift language concepts including variables constants types arrays and dictionaries before he shows you how to use Swift s innovative Xcode integrated development environment to create apps for iOS and OS X THIS BOOK INCLUDES Detailed instruction ample illustrations and clear examples Real world guidance and advice Best practices from an experienced Mac and iOS developer Emphasis on how to use Xcode Playgrounds and the REPL COMPANION WEBSITE [www.peachpit.com/swiftbeginners](http://www.peachpit.com/swiftbeginners) includes additional resources

**Swift Language for Humans** Shaping Edge,2019-10-25 Have you ever wondered of creating your own iPhone or iPad application and share it in the App Store but don t know where to get started Well for creating great iPhone apps Swift Programming Language is the way to go Swift was introduced by Apple in 2014 and it has been the standard language to create iOS and Mac OS applications This book covers the basics of Swift Programming Language for Complete Beginners who have little to no programming experience and are looking to start learning Swift in Quick Easy way Literally if you have no coding background this book is just for you The book covers everything you need to know in Swift Language by starting from scratch and going all the way upto making you ready for the next step of creating apps To get best out of the book you must code along with learning about the concepts explained in the book The book also has code snippets and output snippets for you to understand every element in the code What you will learn Learn about various data types in Swift Understand core Swift components Learn how to create and use variables operators collections and control flows Understand how to use custom loops switch cases and functions Who is this book forFor those who have little to no programming experience at all and are completely new to Swift Programming Table of Content1 Getting Started with Swift2 Variables in Swift3 How to use Operators in Swift4 Strings in Swift5 Collection Types in Swift6 Control Flow in Swift7 How to use Functions in Swift

**Swift** Code Well Academy,2016-02-28 Learning to develop apps for the Mac iPhone and iPad using the Swift programming language

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**Beginner's Guide to iOS 13 App Development Using Swift 5. 1** Serhan Yamacli, 2019-10-27

This book covers iOS 13 app design fundamentals using the latest Swift 5.1 programming language Xcode 11 and iOS 13.1 SDK The author assumes you have no experience in app development The book starts with the installation of the required programming environment and setting up the simulators Then the simplest Hello World app is developed step by step In the next chapter basics of the Swift 5 programming language are given with practical examples Screenshots and code snippets are clearly given in the book to guide the reader After the Swift lecture 7 complete apps including a 2D game are developed in separate chapters As the reader follows the development of the example apps he/she will learn designing user interfaces connecting interface objects to code developing efficient Swift code and testing the app on simulators and real devices Chapters of the book and the contents of these chapters are as follows Chapter 1 Introduction General info and the steps of developing an iOS app Chapter 2 Setting up your development environment Installing Xcode setting up signing identities viewing adding simulators and real devices Chapter 3 Test drive the Hello World Creating a new Xcode project adding and positioning user interface objects building the project running the developed app on the simulator and on the real device Chapter 4 Swift programming language Variables constants optionals arrays dictionaries sets if else and switch case decision making statements for and while loops functions classes objects and inheritance in Swift 5 Each concept is clearly explained step by step with code examples and screenshots Chapter 5 Disco lights app Using buttons and connecting actions to buttons in the code Chapter 6 Body mass index BMI calculator app Using input boxes performing calculations and displaying the results on the screen Chapter 7 Simple die roller app Using random number generator functions including image sets in your

project displaying images on the screen and changing the displayed image using Swift code Chapter 8 Exercise calorie calculator app Using global variables creating tabbed apps and utilizing segmented controls Chapter 9 Show my location app Adding a map object to your app setting required permissions accessing GPS device and showing real time location on the map Chapter 10 S O S sender app Adding SMS functionality setting required permissions and sending real time location using SMS Chapter 11 Bounce the ball game Basics of SpriteKit that is used to develop 2D iOS games adding objects to the game sensing screen touches moving game objects according to touches combining all these and more to develop a complete 2D game This book includes 212 figures and 101 code snippets that are used to explain app development concepts clearly Full resolution colour figures and project files can be viewed and downloaded from the book's companion website [www.yamaclis.com/ios13swift5](http://www.yamaclis.com/ios13swift5)

**Swift for Absolute Beginners** Gary Bennett, Brad Lees, 2015-05-17 You have a great idea for an app but where to start Apple has created a fun interactive new programming language called Swift and with Swift for Absolute Beginners you can jump right programming for the iPhone or iPad or Mac even if you've never programmed before Using a hands on approach you'll learn how to think in programming terms Even if you've never programmed at all you'll start at square one learning Swift with Apple Xcode development tool to build a mental framework for thinking about programming You'll learn about Playgrounds Apple's new tool for executing Swift code immediately and you'll learn all about object oriented programming with Swift how to create user interfaces and even how to debug your app If you're looking to take the first step towards App Store success Swift for Absolute Beginners is the place to start

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