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Augmented and Virtual Reality in Libraries Jolanda-Pieta van Arnhem,Christine Elliott,Marie Rose,2018-05-24 Augmented and Virtual Reality in Libraries is written for librarians by librarians understanding that diverse communities use libraries museums and archives for a variety of different reasons Many current books on this topic have a very technological focus on augmentation and are aimed towards computer programmers with advanced technology skills This book makes augmented reality virtual reality and mixed reality applications much more accessible to professionals without extensive technology backgrounds This innovative title touches on possible implementation projects and assessment needs for both academic and public libraries museums and archives **Apple Vision Pro for Creators** John Ray,2024-08-22 For those who want to explore imagine and truly Think different welcome to a journey of creation through the Apple Vision Pro Apple Vision Pro for Creators A Beginner s Guide to Building Immersive Experiences introduces the Apple Vision Pro headset to creative enthusiasts offering a guide to crafting experiences that leverage its unique features Not a developer No worries code and concepts are introduced and explained in easy to understand terms You ll learn how to code 2D 3D applications create immersive spaces design procedural materials use photogrammetry to build detailed 3D models track user gestures play spatial audio and deliver your creations through the App Store or TestFlight Cut through complexity and jargon using this guide and the accompanying exercises that make the most of Apple s latest software Readers will learn to leverage cutting edge development tools and techniques as they Learn Apple Vision Pro core concepts and AR VR terminology Master Apple development tools and languages while building interactive projects Explore how to scale experiences from simple windows to fully immersive spaces Build interactive 3D scenes with your own objects and materials Add lighting and spatial audio effects to enhance realism Seamlessly mix the real and virtual worlds with advanced object behaviors Implement assistive technologies to bring your work to a diverse audience **Brain-Inspired Cognitive Architectures for Artificial Intelligence: BICA*AI 2020** Alexei V. Samsonovich,Ricardo R. Gudwin,Alexandre da Silva Simões,2020-12-08 The book focuses on original approaches intended to support the development of biologically inspired cognitive architectures It bridges together different disciplines from classical artificial intelligence to linguistics from neuro and social sciences to design and creativity among others The chapters based on contributions presented at the Eleventh Annual Meeting of the BICA Society held on November 10 14 2020 in Natal Brazil discuss emerging methods theories and ideas towards the realization of general purpose humanlike artificial intelligence or fostering a better understanding of the ways the human mind works All in all the book provides engineers mathematicians psychologists computer scientists and other experts with a timely snapshot of recent research and a source of inspiration for future developments in the broadly intended areas of artificial intelligence and biological inspiration **.NET Developer's Guide to Augmented Reality in iOS** Lee Englestone,2021-02-23 Attention NET developers here is your starting point for learning how to create and publish augmented reality AR apps for iOS devices

This book introduces and explores iOS augmented reality mobile app development specifically for NET developers The continued adoption and popularity of Xamarin a tool that allows cross platform mobile application development opens up many app publishing opportunities to NET developers that were never before possible including AR development You will use Xamarin to target Apple s augmented reality framework ARKit to develop augmented reality apps in the language you prefer C Begin your journey with a foundational introduction to augmented reality ARKit Xamarin and NET You will learn how this remarkable collaboration of technologies can produce fantastic experiences many of them never before tried by NET developers From there you will dive into the fundamentals and then explore various topics and AR features Throughout your learning proof of concepts will be demonstrated to reinforce learning After reading this book you will have the fundamentals you need as well as an understanding of the overarching concepts that combine them You will come away with an understanding of the wide range of augmented reality features available for developers including the newest features included in the latest versions of ARKit What You Will Learn Create rich commercial and personal augmented reality mobile apps Explore the latest capabilities of ARKit Extend and customize chapter examples for building your own amazing apps Graduate from traditional 2D UI app interfaces to immersive 3D AR interfaces Who This Book Is For Developers who want to learn how to use NET and C to create augmented reality apps for iOS devices It is recommended that developers have some Xamarin experience and are aware of the cross platform options available to NET A paid Apple developer account is not needed to experiment with the AR code samples on your devices   *Tim Cook's Apple Vision* Daniel D. Lee,2024-05-05 Tim Cook s Apple Vision is a comprehensive exploration of the transformative strategies and visionary leadership of Tim Cook at the helm of Apple Inc This detailed narrative dives deep into the technological and corporate shifts that have shaped Apple since Cook took over as CEO It meticulously covers the development of groundbreaking technologies strategic deployments of artificial intelligence and the far reaching impacts these have had on the Apple ecosystem and beyond Spanning over thirty five chapters the book delves into various dimensions of Apple s evolution under Cook s leadership from the innovative design and impact of the Vision Pro and the strategic ascension of Cook himself to the radical changes in products like the iPhone iPad and Mac Each chapter is crafted to provide a nuanced view of the challenges and triumphs that define each segment of Apple s business including its push into health technology environmental responsibility and privacy Tim Cook s Apple Vision also critically assesses the strategic directions Apple has taken in the realm of AI with a particular focus on its proprietary AI model Ajax and how it s poised to revolutionize user interaction across Apple s suite of devices The narrative is rich with discussions on the integration of AI in various facets of Apple s operations reflecting on the ethical implications and the future visions of AI utilization in consumer technology In addition to technological advancements the book provides a profound look at Apple s cultural shifts exploring initiatives in diversity inclusion and employee well being It also navigates the complex terrain of Apple s global expansion supply chain innovations and the company s responses to legal and financial

challenges Through Tim Cook s Apple Vision readers gain insights not only into the specifics of product development and corporate strategy but also into the broader implications of Cook s leadership for the tech industry and global business practices The book is an essential read for anyone keen on understanding how Apple under Cook continues to define and dominate the tech landscape pushing the boundaries of innovation privacy and corporate responsibility It is a tribute to the enduring legacy of a visionary leader and a roadmap to understanding the future trajectories of one of the world s most influential companies   *Augmented Reality with Unity AR Foundation* Jonathan Linowes,2021-08-16 Explore the world of augmented reality development with the latest features of Unity and step by step tutorial style examples with easy to understand explanations Key Features Build functional and interactive augmented reality applications using the Unity 3D game engine Learn to use Unity s XR and AR components including AR Foundation and other standard Unity features Implement common AR application user experiences needed to build engaging applications Book DescriptionAugmented reality applications allow people to interact meaningfully with the real world through digitally enhanced content The book starts by helping you set up for AR development installing the Unity 3D game engine required packages and other tools to develop for Android ARCore and or iOS ARKit mobile devices Then we jump right into the building and running AR scenes learning about AR Foundation components other Unity features C coding troubleshooting and testing We create a framework for building AR applications that manages user interaction modes user interface panels and AR onboarding graphics that you will save as a template for reuse in other projects in this book Using this framework you will build multiple projects starting with a virtual photo gallery that lets you place your favorite framed photos on your real world walls and interactively edit these virtual objects Other projects include an educational image tracking app for exploring the solar system and a fun selfie app to put masks and accessories on your face The book provides practical advice and best practices that will have you up and running quickly By the end of this AR book you will be able to build your own AR applications engaging your users in new and innovative ways What you will learn Discover Unity engine features for building AR applications and games Get up to speed with Unity AR Foundation components and the Unity API Build a variety of AR projects using best practices and important AR user experiences Understand the core concepts of augmented reality technology and development for real world projects Set up your system for AR development and learn to improve your development workflow Create an AR user framework with interaction modes and UI saved as a template for new projects Who this book is for This augmented reality book is for game developers interested in adding AR capabilities to their games and apps The book assumes beginner level knowledge of Unity development and C programming familiarity with 3D graphics and experience in using existing AR applications Beginner level experience in developing mobile applications will be helpful to get the most out of this AR Unity book   **Apple ARKit Revealed** Dell Wolfensparger,2018-12-16 Jump start your development efforts Use Apple s ARKit platform to develop augmented reality AR apps for the iPhone and iPad Now you can have your first AR app up and running

in under an hour Apple ARKit Revealed is filled with examples of applications that are easy to construct and will help you learn the skills needed to become a proficient ARKit developer The book explains and demonstrates the advantages of using ARKit development tools from Apple Unity and Unreal This coverage of different vendor products will help you choose the right tool for the job when you build your first AR application Beyond teaching ARKit itself many of the code examples provided in this book can be used as templates to start your own AR development efforts What You ll Learn Create AR applications using Sprite Kit Scene Kit and Metal2 Enhance your applications with Hit Testing sound and animation Build positional tracking into your applications so that users can move around Implement Visual Inertial Odometry VIO techniques for object placement and positioning Integrate with popular 3D and 2D engines such as Unity3D and Unreal Become familiar with scene understanding and why it matters in AR applications Who This Book Is For Developers looking to get started with ARKit as quickly as possible The book is especially aimed at those looking to get an app to market quickly in order to showcase their AR skills or to target a fast emerging opportunity **Mastering ARKit** Jayven Nhan,2022-02-24 Embark on a journey to build an augmented reality world This book puts theory into practical application by building unique augmented reality apps specific to each chapter s topic You ll learn to engineer successful well designed and comprehensive augmented reality applications for Apple devices First uncover the foundation of augmented reality on Apple platforms Understand the building blocks and inner workings of the technologies that power augmented reality Then learn about building AR apps using ARKit SceneKit SpriteKit RealityKit and RealityComposer You ll study augmented reality app business models designs and content for the ultimate user experience Plus you ll cover the theories and practicalities of ARKit APIs such as surface detection working with world maps body motion capture face tracking object scanning and detecting people occlusion and more Chapter by chapter this book helps you to become an advanced augmented reality engineer By the end of the book you ll have the necessary mental models and tools to engineer delightful experiences in Apple s augmented reality platforms What You ll Learn Build AR apps with SceneKit SpriteKit RealityKit and RealityComposer Understand the business models that support augmented reality Incorporate surface detection computer vision and body motion capture in your apps Who This Book Is ForiOS developers who want to expand their knowledge of ARKit They should have a solid foundation in the Swift programming language and understand the basics of navigating Xcode IOS Augmented Reality with ARKit Felix Changoo,2018 In this course we take you on a tour of various APIs and tools that you will need in order to develop various AR apps for iOS devices In this course you will start by installing Xcode 9 and then register on Apple s developer account with all the essential setup Then you will be introduced to APIs and tools so that you are all set to develop your 1st ARKit app You will start by creating a small app where you get a 3D model on screen and learn the basics of setting up and using ARKit In this app you will learn to use ARKit to set up configure add and remove objects from ARSCNView Then you will continue to explore other ARKit features by developing a 3D shape App by focusing primarily on 3D interaction and UI Controls in AR

using gesture recognizers Lastly we will create an exciting AR Shooter Game App where you will learn to set up your game adjust scene lighting and targets destroy your targets and design different levels In the last section you will learn to build a small demo project by using Metal and Unity By the end of this video course you will have learned various APIs essential for developing games and will have easily developed 3 practical AR apps that you can further optimize with the Metal API and that you can integrate with the third party tools such as Unity Resource description page **Complete IOS 12 Development Guide** Craig Clayton,Donny Wals,2019-03-20 Learn to create professional grade iOS applications for the App Store using the latest iOS 12 features and other helpful tools Key Features Explore the distinctive design principles that define the iOS user experience Train and use machine learning models with Core ML 2 and Create ML Delve into advanced animations with UIViewPropertyAnimator and UIKitDynamics Book Description With Apple users spending more money in the App Store there are plenty of development opportunities for professional iOS developers This Learning Path is a direct route to iOS development which will take you through the basics and help you put principles into practice For experienced programmers this book will help you gain insights into the latest iOS 12 features This book is also useful for beginners who want to gain expertise in iOS development You ll start with an introduction to iOS development Xcode and Swift To give your app the edge you ll get up to speed with advanced iOS topics such as gestures and animations Next you will understand the latest Swift 4 2 and iOS 12 developments by incorporating new features such as the latest in notifications custom UI notifications maps and recent additions in SiriKit With these tools you ll be able to write efficient readable and maintainable Swift code that maintains industry best practices By the end of the book you will have the confidence to build iOS 12 applications that harness advanced techniques and make the best use of the latest features This Learning Path includes content from the following Packt products iOS 12 Programming for Beginners Third Edition by Craig Clayton Mastering iOS 12 Programming Third Edition by Donny Wals What you will learn Build a responsive user interface UI and add privacy to your custom rich notifications Set up SiriKit to add voice for Siri shortcuts Integrate iMessage Siri and more in your app through app extensions Use TestFlight to collect feedback before releasing your apps on the App Store Use Auto Layout to create complex layouts that look visually appealing on any device Enhance your app by building your own profiling tools Create engaging augmented reality experiences with ARKit 2 Who this book is for If you are completely new to Swift iOS or programming and want to become an expert in developing iOS applications this Learning Path is for you You ll also find this Learning Path useful if you re an experienced programmer looking to explore the latest iOS 12 features **Apple Augmented Reality by Tutorials (Second Edition)** raywenderlich Tutorial Team,Chris Language,2022-02-23 Learn Augmented Reality Augmented reality is going to be the next big thing there s absolutely no doubt about it If you want to build realistic and immersive AR experiences for the Apple platform this book is your golden ticket Apple Augmented Reality by Tutorials is the easiest and fastest way to get hands on experience using Apple frameworks and technologies like Reality

Composer RealityKit and ARKitWho This Book Is ForThis book is for beginner to intermediate iOS developers who already know the basics of Swift development and are looking to build immersive AR experiences for the Apple platform Topics Covered in Apple AR by TutorialsAR Quick Look Discover how to integrate AR Quick Look into your apps to give them some cool AR superpowers Reality Composer Reality Files Find out how to leverage the power of Reality Composer to create interactive AR based experiences Reality Converter PBR Materials Discover how PBR materials can add a level of realism to your AR objects and how to use Reality Converter to convert view customize and create USDZ content RealityKit Learn to set up and use RealityKit to build a face based augmented reality app Facial Blend Shapes Build a fully interactive augmented reality face mask that reacts to your facial expressions using blend shapes ARKit Get a complete introduction to ARKit Apple s framework for creating fully interactive augmented reality and learn about the different types of rendering options available with ARKit Raycasting Physics Learn about raycasting 2D hit testing and the SpriteKit physics engine as you add more features and functionality to your game ECS Collaborative Experiences Build a collaborative AR experience and learn how to create and manage a multipeer connection Object Capture Learn how to create realistic 3D models from real life objects with photogrammetry After reading this book you ll have a deep understanding of the technologies and frameworks used to create powerful immersive AR experiences for the Apple platform   **Beginning ARKit for iPhone and iPad** Wallace Wang,2018-11-05 Explore how to use ARKit to create iOS apps and learn the basics of augmented reality while diving into ARKit specific topics This book reveals how augmented reality allows you to view the screen on an iOS device aim the camera at a nearby scene and view both the real items in that scene as well as a graphic image overlaid on to that scene You ll start by accessing the camera and teaching your app to track the world around its device You ll then see how to position nodes and create augmented reality shapes and textures Next you ll have your creations interact with their environment by programming workable physics detecting planes measuring distance and applying virtual force Finally you ll learn how to hit test and troubleshoot your applications to ensure they interact with the real world around them seamlessly ARKit is Apple s software framework for creating augmented reality apps on iOS devices such as the iPhone and iPad Unlike virtual reality that creates an entirely artificial world for the user to view and explore Beginning ARKit for iPhone and iPad will show you how augmented reality places artificial items in an actual scene displayed by an iOS device s camera What You ll Learn Access the camera Use ARKit s hit testing for tracked geometry Apply and combine real world and virtual physics Who This Book Is For Programmers familiar with the basics of Swift programming who want to dive into developing iOS applications with Swift   **Augmented Reality for Developers** Jonathan Linowes,Krystian Babilinski,2017-10-09 Build exciting AR applications on mobile and wearable devices with Unity 3D Vuforia ARToolKit Microsoft Mixed Reality HoloLens Apple ARKit and Google ARCore About This Book Create unique AR applications from scratch from beginning to end with step by step tutorials Use Unity 3D to efficiently create AR apps for Android iOS and Windows platforms Use Vuforia

ARTookKit Windows Mixed Reality and Apple ARKit to build AR projects for a variety of markets Learn best practices in AR user experience software design patterns and 3D graphics Who This Book Is For The ideal target audience for this book is developers who have some experience in mobile development either Android or iOS Some broad web development experience would also be beneficial What You Will Learn Build Augmented Reality applications through a step by step tutorial style project approach Use the Unity 3D game engine with the Vuforia AR platform open source ARToolKit Microsoft s Mixed Reality Toolkit Apple ARKit and Google ARCore via the C programming language Implement practical demo applications of AR including education games business marketing and industrial training Employ a variety of AR recognition modes including target images markers objects and spatial mapping Target a variety of AR devices including phones tablets and wearable smartglasses for Android iOS and Windows HoloLens Develop expertise with Unity 3D graphics UIs physics and event systems Explore and utilize AR best practices and software design patterns In Detail Augmented Reality brings with it a set of challenges that are unseen and unheard of for traditional web and mobile developers This book is your gateway to Augmented Reality development not a theoretical showpiece for your bookshelf but a handbook you will keep by your desk while coding and architecting your first AR app and for years to come The book opens with an introduction to Augmented Reality including markets technologies and development tools You will begin by setting up your development machine for Android iOS and Windows development learning the basics of using Unity and the Vuforia AR platform as well as the open source ARToolKit and Microsoft Mixed Reality Toolkit You will also receive an introduction to Apple s ARKit and Google s ARCore You will then focus on building AR applications exploring a variety of recognition targeting methods You will go through multiple complete projects illustrating key market sectors including business marketing education industrial training and gaming By the end of the book you will have gained the necessary knowledge to make quality content appropriate for a range of AR devices platforms and intended uses Style and approach This book adopts a practical step by step tutorial style approach The design principles and methodology will be explained by creating different modules of the AR app   *Learning ARKit for Developers* ,2018 Learn how to create augmented reality AR apps using the powerful ARKit and SpriteKit frameworks from Apple   *Mastering ARKit* Jayven Nhan,2022 Embark on a journey to build an augmented reality world This book puts theory into practical application by building unique augmented reality apps specific to each chapter s topic You ll learn to engineer successful well designed and comprehensive augmented reality applications for Apple devices First uncover the foundation of augmented reality on Apple platforms Understand the building blocks and inner workings of the technologies that power augmented reality Then learn about building AR apps using ARKit SceneKit SpriteKit RealityKit and RealityComposer You ll study augmented reality app business models designs and content for the ultimate user experience Plus you ll cover the theories and practicalities of ARKit APIs such as surface detection working with world maps body motion capture face tracking object scanning and detecting people occlusion and more Chapter by chapter this book

helps you to become an advanced augmented reality engineer By the end of the book you ll have the necessary mental models and tools to engineer delightful experiences in Apple s augmented reality platforms You will Build AR apps with SceneKit SpriteKit RealityKit and RealityComposer Understand the business models that support augmented reality Incorporate surface detection computer vision and body motion capture in your apps **Swift Game Development** Siddharth Shekar,Stephen Haney,2018-09-28 Embrace the mobile gaming revolution by creating popular iOS games with Swift 4 2 Key FeaturesLearn to create games for iPhone and iPad with the latest Swift Programming languageUnderstand the fundamental concepts of game development like game physics camera action sprites controls among othersBuild Augmented reality games using ARKit for true performanceBook Description Swift is the perfect choice for game development Developers are intrigued by Swift and want to make use of new features to develop their best games yet Packed with best practices and easy to use examples this book leads you step by step through the development of your first Swift game The book starts by introducing Swift s best features including its new ones for game development Using SpriteKit you will learn how to animate sprites and textures Along the way you will master physics animations and collision effects and how to build the UI aspects of a game You will then work on creating a 3D game using the SceneKit framework Further we will look at how to add monetization and integrate Game Center With iOS 12 we see the introduction of ARKit 2 0 This new version allows us to integrate shared experiences such as multiplayer augmented reality and persistent AR that is tied to a specific location so that the same information can be replicated on all connected devices In the next section we will dive into creating Augmented Reality games using SpriteKit and SceneKit Then finally we will see how to create a Multipeer AR project to connect two devices and send and receive data back and forth between those devices in real time By the end of this book you will be able to create your own iOS games using Swift and publish them on the iOS App Store What you will learnDeliver powerful graphics physics and sound in your game by using SpriteKit and SceneKitSet up a scene using the new capabilities of the scene editor and custom classesMaximize gameplay with little known tips and strategies for fun repeatable actionMake use of animations graphics and particles to polish your gameUnderstand the current mobile monetization landscapeIntegrate your game with Game CenterDevelop 2D and 3D Augmented Reality games using Apple s new ARKit frameworkPublish your game to the App StoreWho this book is for If you wish to create and publish iOS games using Swift then this book is for you No prior game development or experience with Apple ecosystem is needed Mastering iOS 14 Programming Mario Eguiluz Alebicto,Chris Barker,Donny Wals,2021-03-19 Become a professional iOS developer with the most in depth and advanced guide to Swift 5 3 Xcode 12 4 ARKit 4 Core ML and iOS 14 s new features Key FeaturesExplore the world of iOS app development through practical examplesUnderstand core iOS programming concepts such as Core Data networking and the Combine frameworkExtend your iOS apps by adding augmented reality and machine learning capabilities widgets App Clips Dark Mode and animationsBook Description Mastering iOS 14 development isn t a straightforward task but this book can

help you do just that With the help of Swift 5 3 you ll not only learn how to program for iOS 14 but also be able to write efficient readable and maintainable Swift code that reflects industry best practices This updated fourth edition of the iOS 14 book will help you to build apps and get to grips with real world app development flow You ll find detailed background information and practical examples that will help you get hands on with using iOS 14 s new features The book also contains examples that highlight the language changes in Swift 5 3 As you advance through the chapters you ll see how to apply Dark Mode to your app understand lists and tables and use animations effectively You ll then create your code using generics protocols and extensions and focus on using Core Data before progressing to perform network calls and update your storage and UI with the help of sample projects Toward the end you ll make your apps smarter using machine learning streamline the flow of your code with the Combine framework and amaze users by using Vision framework and ARKit 4 0 features By the end of this iOS development book you ll be able to build apps that harness advanced techniques and make the best use of iOS 14 s features What you will learnBuild a professional iOS application using Xcode 12 4 and Swift 5 3Create impressive new widgets for your apps with iOS 14Extend the audience of your app by creating an App ClipImprove the flow of your code with the Combine frameworkEnhance your app by using Core LocationIntegrate Core Data to persist information in your appTrain and use machine learning models with Core MLCreate engaging augmented reality experiences with ARKit 4 and the Vision frameworkWho this book is for This book is for developers with some experience in iOS programming who want to enhance their application development skills by unlocking the full potential of the latest iOS version with Swift *Beginning iOS AR Game Development* Allan Fowler,2018-11-16 Create a fully featured application that s both sophisticated and engaging This book provides a detailed guide in developing augmented reality games that can take advantage of the advanced capabilities of new iOS devices and code while also offering compatibility with still supported legacy devices No programming experience is necessary as this book begins on the ground floor with basic programming concepts in Unity and builds to incorporating input from the real world to create interactive realities You ll learn to program with the Unity 2017 development platform using C Recent announcements of increased AR capabilities on the latest iPhones and iPads show a clear dedication on Apple s part to this emerging market of immersive games and apps Unity 2017 is the latest version of this industry leading development platform and C is a ubiquitous programming language perfect for any programmer to begin with Using the latest development technologies Beginning iOS AR Game Development will show you how to program games that interact directly with the real world environment around the user for creative fantastic augmented reality experiences What You ll Learn Download assets from the Unity store Create a scene in Unity 2017 Use physics and controls on mobile devices Who This Book Is For Beginner programmers and or people new to developing games using Unity It also serves as a great introduction to developing AR games and educators teaching the subject at high school or higher levels **Apple developer connection** , *Swift Cookbook* Keith Moon,Chris Barker,Daniel Bolella,Nathan Lawlor,2024-06-07 Explore the latest

features in Swift with the most experienced iOS developers and build feature rich reliable iOS native apps with proven industry standard recipes modern design techniques and strategies beyond the official documentation Key Features Harness the power of Swift to create stunning applications spanning mobile apps to machine learning models Learn and practice the flexible Swift programming language with a practical recipe based approach Leverage highly tested recipes that any Swift developer can follow in this part color guide Book DescriptionUnlock the full potential of Swift and elevate your iOS development skills with this new edition of Swift Cookbook highlighting the latest features in Swift 5 9 This cookbook will take your Swift programming skills to the next level boosting your productivity and efficiency step by step through a plethora of practical recipes Although this book is primarily for experienced iOS developers it provides an introductory overview of Swift 5 9 including its basic building blocks syntax and the functionalities of Swift constructs to get you warmed up Once you ve mastered the fundamentals you ll get down to business Unless you re completely new to Swift this recipe based guide doesn t need to be read in order you can jump to whichever topic takes your fancy from UIKit and SwiftUI to advanced UI techniques from Swift s control flow and generics to machine learning with Vision CoreML and augmented reality with ARKit By the end of this book you ll be fully up to speed with Swift s capabilities and be able to develop amazing applications across a wide variety of domains What you will learn Define flexible classes and structs using generics Use advanced operators and create custom ones Build iOS apps using UIKit and SwiftUI framework Import custom functionality into Swift Playgrounds Implement machine learning models using CoreML and Vision Manage 3D models and assets for ARKit using Swift and Xcode Who this book is for This book is for experienced iOS developers looking to master the diverse features offered by Swift 5 9 along with tips and tricks to efficiently code and build applications Knowledge of general programming concepts will assist with understanding key concepts

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