



# Learn Unity 2017 for iOS Game Development

Create Amazing 3D Games for iPhone  
and iPad

—  
*Second Edition*

—  
Allan Fowler  
Philip Chu

Apress®

# Learn Unity 2017 For Ios Game Development Apress Com

**John P. Doran**



## **Learn Unity 2017 For Ios Game Development Apress Com:**

**Learn Unity 2017 for iOS Game Development** Allan Fowler, Philip Chu, 2017-11-24 Discover how to use Unity with Xcode to create fun imaginative 3D games for iPhone and iPad This book shows you how to optimize your game for both speed and quality how to test and profile your game and how to get the most out of your iOS device features including the gyroscope and accelerometer You'll also learn how to incorporate the latest Game Center improvements in iOS into your game how to make sure your game gets into the App Store and even how to promote your app and track revenue Unity is an incredibly powerful and popular game creation tool and Unity 5 brings even more great features including Mecanim animation If you have a great 3D game idea and you want to make it a reality in the App Store then Learn Unity 5 for iOS Game Development has exactly what you need What You'll Learn How to include iAds How to integrate Game Center leaderboards and achievements How to profile and optimize performance Who This Book Is For iOS developers interested in using Unity and Unity developers who want to customize their games for iOS devices [Learn Unity 2017 for iOS Game Development](#)

Allan Fowler, Philip Chu, 2017-11-25 Discover how to use Unity with Xcode to create fun imaginative 3D games for iPhone and iPad This book shows you how to optimize your game for both speed and quality how to test and profile your game and how to get the most out of your iOS device features including the gyroscope and accelerometer You'll also learn how to incorporate the latest Game Center improvements in iOS into your game how to make sure your game gets into the App Store and even how to promote your app and track revenue Unity is an incredibly powerful and popular game creation tool and Unity 5 brings even more great features including Mecanim animation If you have a great 3D game idea and you want to make it a reality in the App Store then Learn Unity 5 for iOS Game Development has exactly what you need What You'll Learn How to include iAds How to integrate Game Center leaderboards and achievements How to profile and optimize performance Who This Book Is For iOS developers interested in using Unity and Unity developers who want to customize their games for iOS devices *Learn Unity 4 for iOS Game Development* Philip Chu, 2013-08-04 Unity is an incredibly powerful and popular game creation tool and Unity 4 brings even more great features including Mechanim animation Learn Unity 4 for iOS Game Development will show you how to use Unity with Xcode to create fun imaginative 3D games for iPhone iPad and iPod touch You'll learn how to optimize your game for both speed and quality how to test and profile your game and how to get the most out of your iOS device features including the gyroscope and accelerometer You'll also learn how to incorporate the latest Game Center improvements in iOS 6 into your game how to make sure your game gets into the App Store and even how to promote your app and track revenue If you have a great 3D game idea and you want to make it a reality in the App Store then Learn Unity 4 for iOS Game Development has exactly what you need [Unity 2017 Mobile Game Development](#)

John P. Doran, 2017-11-30 Learn to create publish and monetize your mobile games with the latest Unity 2017 tool set easily for Android and iOS About This Book One stop solution to becoming proficient in mobile game

development using Unity 2017 Port your Unity games to popular platforms such as iOS and Android Unleash the power of C scripting to create realistic gameplay and animations in Unity 2017 Who This Book Is For If you are a game developer and want to build mobile games for iOS and Android then this is the book for you Previous knowledge of C and Unity is helpful but not required What You Will Learn Use Unity to build an endless runner game Set up and deploy a project to a mobile device Create interesting gameplay elements using inputs from your mobile device Monetize your game projects with Unity ads and in app purchases Design UI elements that can be used well in Landscape and Portrait mode at different resolutions supporting phones tablets and PCs How to submit your game to the iOS and Android app stores In Detail Unity has established itself as an overpowering force for developing mobile games If you love mobile games and want to learn how to make them but have no idea where to begin then this book is just what you need This book takes a clear step by step approach to building an endless runner game using Unity with plenty of examples on how to create a game that is uniquely your own Starting from scratch you will build set up and deploy a simple game to a mobile device You will learn to add touch gestures and design UI elements that can be used in both landscape and portrait mode at different resolutions You will explore the best ways to monetize your game projects using Unity Ads and in app purchases before you share your game information on social networks Next using Unity s analytics tools you will be able to make your game better by gaining insights into how players like and use your game Finally you ll learn how to publish your game on the iOS and Android App Stores for the world to see and play along Style and approach This book takes a clear step by step approach for Unity game developers to explore everything needed to develop mobile games with Unity

**Unity Ios Game Development Beginners Guide** Gregory Pierce,2012 This step by step book guides you through the process of using Unity to create monetized iOS games It will get you through all the major learning points in a smooth logical order Youwill also learn how to avoid some common pitfalls This book is for developers and designers who want to learn the process of building commercial game applications using Unity It is intended for novices through to intermediate developers of all types regardless of their skill level with Unity This book is packed with clear instructions and careful explanations for creating a powerful social networking site using Drupal 7 With each chapter you add new features and content until your social network is ready to be released to the Internet where it can grow By the end of this book you will have a powerful social network which you can either choose to model on the case study or create to your own unique design This book is aimed at anyone looking to create their own social networking website including Businesses building a social network around a product or service can improve your company profile and increase customer loyalty while an internal social network gives you employees a place to keep resources discuss ideas raise concerns and keep up to date on company policies Hobbyists create a community around your hobbies and interests create a local or distributed user group Organizations and charities raise your profile promote your events services and fundraisers and get help from the community in organizing them Families for large families based across

the country or across the globe keep up to date with everyone and let everyone know what you are up to You don t need any experience of Drupal or PHP to use this book If you are a Drupal user you will find this book a great way to rapidly tailor an existing installation into a socially orientated website *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 **Learning Unity iOS Game Development** Kyle Langley,2015-09-29 Build exciting games with Unity on iOS and publish them on the App Store About This Book Take advantage of Unity 5 s new tools to create a fully interactive mobile game Learn how to connect your iTunes developer account and use Unity 5 to communicate with it Use your Macintosh computer to publish your game to the App Store Who This Book Is For This book is for iOS developers who want to learn how to build games with Unity for the iOS platform Some prior experience in game development would be useful What You Will Learn Create your own iTunes Connect Developer account and create an app within it Set up iTunes Game Center features in iTunes Connect so you can use them within Unity 5 Construct a game using C that allows users to interactively control the game character Use Unity 5 s editor window to create a custom editor tool specific for the game made in the book Store and keep track of data so the player is able to collect in game pick ups that can be used to purchase in game goods Use all game features so the player is able to fully navigate menus between the front menu and in the game state Make test and finally release builds so you can play on your device and then submit the game to Apple for review In Detail Over recent years the market for mobile game development using Unity has grown multi fold with an overwhelming 600 million gamers playing games developed using Unity engine The newly launched Unity 5 offers a wide range of dedicated and powerful tools for iOS developers who intend to follow the basics and gradually elevate their skills to revolutionize the way they design and publish games for the App Store From beginners to

those who are experienced making video games this book goes through the steps of using Unity 5 to make a game from the ground up and setting the game up with iTunes Game Center features The book begins with an introduction to setting up an iTunes Connect developer account this will allow you to use Unity to its full potential with iOS You will create a new app in iTunes Connect with the settings for Apple approval You will learn in detail how to use Unity 5 and the programming language C to make a fully interactive game that keeps track of player progress Game Center Leaderboards and Achievements as well as displaying iAds and offering In App purchases Moving on you ll discover how to create development and release builds enabling you to test the game on your device before finally submitting the game for Apple s approval By the end of the book you will have a complete understanding of how iTunes and Unity can be used in combination to build and publish a fully interactive and reliable game to the App Store Style and approach This is a step by step guide that covers the fundamentals of gaming and reveals the secrets of building and monetizing games for the iOS platform *Unity 2018 Game Development in 24 Hours, Sams Teach Yourself* Mike Geig,2018-05-01 In just 24 lessons of one hour or less Sams Teach Yourself Unity Game Development in 24 Hours will help you master the Unity 2018 game engine at the heart of Ori and the Blind Forest Firewatch Monument Valley and many other sizzling hot games This book s straightforward step by step approach teaches you everything from the absolute basics through sophisticated game physics animation and mobile device deployment techniques Every lesson builds on what you ve already learned giving you a rock solid foundation for real world success Step by step instructions carefully walk you through the most common Unity game development tasks Practical hands on examples show you how to apply what you learn Quizzes and exercises help you test your knowledge and stretch your skills Notes and Tips point out shortcuts and solutions Learn how to Get up and running fast with the Unity 2018 game engine and editor Work efficiently with Unity s graphical asset pipeline Make the most of lights and cameras Sculpt stunning worlds with Unity s terrain and environmental tools Script tasks ranging from capturing input to building complex behaviors Quickly create repeatable reusable game objects with prefabs Implement easy intuitive game user interfaces Control players through built in and custom character controllers Build realistic physical and trigger collisions Leverage the full power of Unity s Animation and new Timeline systems Integrate complex audio into your games Use mobile device accelerometers and multi touch displays Build engaging 2D games with Unity s 2D tools and Tilemap Apply the finishing touches and deploy your games *Unity Game Development Scripting* Kyle D'Aoust,2014-12-22 If you are new to Unity scripting and want to learn simple and modular code and advance your knowledge to the next level this is the book for you [Unity 2020 Mobile Game Development](#) John P. Doran,2020-08-21 A practical guide on how to use Unity for building cross platform mobile games and Augmented Reality apps using the latest Unity 2020 toolset Key Features>Create deploy and monetize captivating and immersive games on Android and iOS platformsTake your games into the real world by adding augmented reality features to your mobile projectsKick start your mobile game development journey with step by step instructions and a demo game

projectBook Description Unity 2020 brings a lot of new features that can be harnessed for building powerful games for popular mobile platforms This updated second edition delves into Unity development covering the new features of Unity modern development practices and augmented reality AR for creating an immersive mobile experience The book takes a step by step approach to building an endless runner game using Unity to help you learn the concepts of mobile game development This new edition also covers AR features and explains how to implement them using ARCore and ARKit with Unity The book explores the new mobile notification package and helps you add notifications for your games You ll learn how to add touch gestures and design UI elements that can be used in both landscape and portrait modes at different resolutions The book then covers the best ways to monetize your games using Unity Ads and in app purchases before you learn how to integrate your game with various social networks Next using Unity s analytics tools you ll enhance your game by gaining insights into how players like and use your game Finally you ll take your games into the real world by implementing AR capabilities and publishing them on both Android and iOS app stores By the end of this book you will have learned Unity tools and techniques and be able to use them to build robust cross platform mobile games What you will learnDesign responsive user interfaces for your mobile gamesDetect collisions receive user input and create player movements for your mobile gamesCreate interesting gameplay elements using inputs from your mobile deviceExplore the mobile notification package in Unity game engine to keep players engagedCreate interactive and visually appealing content for Android and iOS devicesMonetize your game projects using Unity Ads and in app purchasesWho this book is for If you are a game developer or mobile developer who wants to learn Unity and use it to build mobile games for iOS and Android then this Unity book is for you Prior knowledge of C and Unity will be beneficial but is not mandatory

*Learn Unity for 2D Game Development* Alan Thorn,2013-10-08 2D games are everywhere from mobile devices and websites to game consoles and PCs Timeless and popular 2D games represent a substantial segment of the games market In *Learn Unity for 2D Game Development* targeted at both game development newcomers and established developers experienced game developer Alan Thorn shows you how to use the powerful Unity engine to create fun and imaginative 2D games Written in clear and accessible language *Learn Unity for 2D Game Development* will show you how to set up a step by step 2D workflow in Unity how to build and import textures how to configure and work with cameras how to establish pixel perfect ratios and all of this so you can put that infrastructure to work in a real playable game Then the final chapters show you how to put what you ve already made to work in creating a card matching game plus you ll learn how to optimize your game for mobile devices What you ll learn How to create a 2D workflow in Unity Customizing the Unity Editor How to generate atlas textures and textured quads Animation effects and camera configuration Handling user input Creating a game from start to finish Optimizing for mobile devices Who this book is for Game development students and professionals indie developers game artists and designers and Unity developers looking to improve their workflow and effectiveness

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games and feel awesome With this book you will build your own 2D and 3D environments and you will spend more time creating than reading to ensure that you can apply the concepts covered in each section All chapters include step by step instructions with examples that you can use straight away If you want to get started with Unity today then buy this book now

**Learn Unity for Android Game Development** Adam Sinicki,2017-07-21 Get a thorough and practical introduction to Unity development for Android devices with no previous experience with game development needed In this book you ll go through every step from downloading and installing Unity and the Android SDK to creating fully functional games The bulk of Learn Unity for Android Game Development is a simple project to create a 2D platform game complete with touchscreen controls physics enemies respawning collectibles and more The book closes with a brief introduction to creating 3D games virtual reality games for the Gear VR and other more advanced applications It also provides some guidance on publishing and marketing as well as thinking about game design and mechanics Resources including sprites and scripts are provided in the code download What You Will Learn Install Unity with the Android SDK Understand and use scripts prefabs and Android Studio Design a great game Build a game app Add a bit of polish Deploy for various Android devices Build and deploy for 3D games virtual reality and more Promote your game and make money Who This Book Is For This book requires no previous experience with programming or game development of any kind Prior experience with the Android ecosystem recommended

Unity Game Development Essentials Will Goldstone,2009-10-01 Build fully functional professional 3D games with realistic environments sound dynamic effects and more

**Unity Game Development in 24 Hours, Sams Teach Yourself** Mike Geig,2021-10-08 In just 24 lessons of one hour or less Sams Teach Yourself Unity Game Development in 24 Hours will help you master the Unity 2021 game engine at the heart of Inside Kerbal Space Program Subnautica and many other sizzling hot games This book s straightforward step by step approach teaches you everything from the absolute basics through sophisticated game physics animation and mobile device deployment techniques Every lesson builds on what you ve already learned giving you a rock solid foundation for real world success Step by step instructions carefully walk you through the most common Unity game development tasks Four sample game projects illustrate the topics Practical hands on examples show you how to apply what you learn Quizzes and exercises help you test your knowledge and stretch your skills Notes and Tips point out shortcuts and solutions Learn how to Get up and running fast with the Unity 2021 game engine and editor Work efficiently with Unity s graphical asset pipeline Make the most of lights and cameras Sculpt stunning worlds with Unity s terrain and environmental tools Script tasks ranging from capturing input to building complex behaviors Quickly create repeatable reusable game objects with prefabs Implement easy intuitive game user interfaces Control players through built in and custom character controllers Build realistic physical and trigger collisions Leverage the full power of Unity s Animation and Timeline systems Integrate complex audio into your games Use mobile device accelerometers and multi touch displays Build engaging 2D games with Unity s 2D tools and Tilemap Apply the finishing touches and deploy your games

**Unity 3.x Game Development Essentials** Will Goldstone, 2011 Annotation Game Engines such as Unity are the power tools behind the games we know and love Unity is one of the most widely used and best loved packages for game development and is used by everyone from hobbyists to large studios to create games and interactive experiences for the web desktop mobile and console With Unity's intuitive easy to learn toolset and this book it's never been easier to become a game developer Taking a practical approach this book will introduce you to the concepts of developing 3D games before getting to grips with development in Unity itself prototyping a simple scenario and then creating a larger game From creating 3D worlds to scripting and creating game mechanics you will learn everything you'll need to get started with game development This book is designed to cover a set of easy to follow examples which culminate in the production of a First Person 3D game complete with an interactive island environment All of the concepts taught in this book are applicable to other types of game however by introducing common concepts of game and 3D production you'll explore Unity to make a character interact with the game world and build puzzles for the player to solve in order to complete the game At the end of the book you will have a fully working 3D game and all the skills required to extend the game further giving your end user the player the best experience possible Soon you will be creating your own 3D games with ease *Learn Unity 3D Programming with UnityScript* Janine Suvak, 2014-08-18 Learn Unity Programming with UnityScript is your step by step guide to learning to make your first Unity games using UnityScript You will move from point and click components to fully customized features You need no prior programming knowledge or any experience with other design tools such as PhotoShop or Illustrator you can start from scratch making Unity games with what you'll learn in this book Through hands on examples of common game patterns you'll learn and apply the basics of game logic and design You will gradually become comfortable with UnityScript syntax at each point having everything explained to you clearly and concisely Many beginner programming books refer to documentation that is too technically abstract for a beginner to use Learn Unity Programming with UnityScript will teach you how to read and utilize those resources to hone your skills and rapidly increase your knowledge in Unity game development You'll learn about animation sound physics how to handle user interaction and so much more Janine Suvak has won awards for her game development and is ready to show you how to start your journey as a game developer The Unity 3D game engine is flexible cross platform and a great place to start your game development adventure and UnityScript was made for it so get started game programming with this book today [Hands-On Unity 2021 Game Development](#) Nicolas Alejandro Borromeo, 2021-08-20 Achieve mesmerizing game experiences using the latest Unity 2021 features by following a practical approach to building professional games Key Features Unleash the capabilities of C# scripting to create UIs graphics game AI agents and more Explore Unity's latest tools including Universal Render Pipeline Shader Graph UI Toolkit Visual Scripting and VFX graph to enhance graphics and animation Build an AR experience using Unity's AR Foundation Book Description Learning how to use Unity is the quickest way to creating a full game but that's not all you can do with this simple yet

comprehensive suite of video game development tools Unity is just as useful for creating AR VR experiences complex simulations real time realistic rendering films and practical games for training and education Hands On Unity 2021 Game Development outlines a practical journey to creating your first full game from the ground up building it step by step and applying your knowledge as you progress Complete with hands on tutorials and projects this easy to follow guide will teach you how to develop the game using several Unity tools As you advance you will learn how to use the Unity engine create simple scripts using C integrate graphics sound and animations and manipulate physics to create interesting mechanics for your game You ll be able to apply all the knowledge that you gain to a real world game Later chapters will show you how to code a simple AI agent to challenge the user and use profiling tools to ensure that the code runs efficiently Finally you ll work with Unity s AR tools to create AR experiences for 3D apps and games By the end of this Unity book you will have created a complete game and built a solid foundation in using a wide variety of Unity tools What you will learn Explore both C and Visual Scripting tools to customize various aspects of a game such as physics gameplay and the UI Program rich shaders and effects using Unity s new Shader Graph and Universal Render Pipeline Implement postprocessing to improve graphics quality with full screen effects Create rich particle systems for your Unity games from scratch using VFX Graph and Shuriken Add animations to your game using the Animator Cinemachine and Timeline Use the brand new UI Toolkit package to create user interfaces Implement game AI to control character behavior Who this book is for This book is best suited for game developers looking to upgrade their knowledge and those who want to migrate their existing skills to the Unity game engine Those with prior Unity knowledge will also benefit from the chapters exploring the latest features While you ll still be able to follow along if you don t have any programming experience knowing the fundamentals of C programming will help you get the most out of this book

**Game Development for iOS with Unity3D** Jeff W. Murray, 2012-07-26 Demystifies the Processes of Game Development Game Development for iOS with Unity3D takes you through the complete process of Unity iOS game development A game developer for over 12 years the author presents production proven techniques and valuable tips and tricks needed to plan build test and launch games for the iPhone iPod and iPad He wa [Unity 5](#) Chris Dickinson, Greg Lukosek, John P. Doran, 2017-07-14 Explore every nook and cranny of Unity 5 to turn your imaginations into reality About This Book Demystify the C programming language in Unity 5 x Unleash the power of Unity to create a wide variety of projects in numerous genres and formats Master the art of optimization for Unity 5 x applications with tips and techniques that will further enhance your game Who This Book Is For Beginner level Unity developers who do not have much programming experience What You Will Learn Master the art of applying C in Unity Get to know about techniques to turn your game idea into working project Use loops and collections efficiently in Unity to reduce the amount of code Create and code a good looking functional UI system for your game Find out how to create exciting and interactive games using GUIs Work with different animation assets and components to enhance your game further Personalize your game by learning how to use

Unity's advanced animation system. Create, visualize, and edit animated creatures to add to your already amazing game. Familiarize yourself with the tools and practices of game development. Discover how to create the Game Manager class to generate game levels and develop UI for the game. Use the Unity Profiler to find bottlenecks anywhere in your application and discover how to resolve them. Implement best practices for C# scripting to avoid common mistakes.

**In Detail:** Unity is a cross-platform game engine that is used to develop 2D and 3D video games. Unity 5 is the latest version and adds a real-time global illumination to the games, and its powerful new features help to improve a game's efficiency. If you love games and want to learn how to make them but have no idea where to begin, then this course is built just for you. This learning path is divided into three modules which will take you in this incredible journey of creating games. The course begins with getting you started with programming behaviors in C# so that you can create 2D games in Unity. You will begin by installing Unity and learning about its features. You will learn how to perform object-oriented programming and discover how to manage the game play loop, generate game levels, and develop a simple UI for the game. By the time this module comes to a close, you will have mastered the art of applying C# in Unity. It is now time we put into use what we learned in the previous module into reality as we move onto the second module. Here we will be building 7-8 action-packed games of different difficulty levels. Each project will focus on key Unity features as well as game strategy development. This module will mark your transformation from an application developer to a full-fledged Unity game developer. Who wouldn't love a game that is fully perfect, functional, and without any glitches? The third module deals with just that by teaching how to enhance your game by learning game optimization skills. Here you'll gain an understanding of possible solutions to any problem and how to implement them. You will then learn everything you need to know about where performance bottlenecks can be found, why they happen, and how to work around them. With this massive wealth of knowledge at the end of this learning path, you will be able to leverage an array of game development techniques to create your own basic games while resolving any issues that you encounter.

**Style and approach:** This learning path should be treated as the complete package necessary for building games. It is a step-by-step guide to develop a game from scratch by applying the fundamentals of C# and Unity scripting with a reference guide in the end to solve all your gaming problems.

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### **Learn Unity 2017 For Ios Game Development Apress Com Introduction**

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