Learning Unity iOS Game Development

Build exciting games with Unity on iOS and publish them on the App Store

Kyle Langley

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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 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

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 *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

Mastering iOS Game Development Miguel DeQuadros,2015-12-29 Master the advanced concepts of game development for iOS to build impressive games About This Book Create a complete game with advanced techniques through the course of

the book using in depth hands on instructions Learn how to multi task and improve performance optimization in your game playing experience The author Miguel has 11 years of iOS game development using xcode and has released over 10 games to the Apple AppStoreMaster player movement using touch controls as well as discuss motion controls Who This Book Is For This book is for those who have created an iOS game already and want to hone their skills A reasonable level of knowledge and an understanding of the core elements and applications would be helpful What You Will Learn Blast off and start developing fun games Optimize the assets for the best performance in the game app Master player movement using touch controls as well as discuss motion controls Perform bug Squashing by testing and debugging Design interesting various characters and enemies for your game Test your game on both the simulator on the computer and on real devices Tweak and fine tune the code and graphics before the release of your app Uncover some awesome new gameplay by adding in multiplayer elements to get more people playing together In Detail iOS is an operating system for Apple manufactured phones and tablets Mobile gaming is one of the fastest growing industries and compatibility with iOS is now becoming the norm for game developers SpriteKit is part of the native SDK from Apple and enables developers to make simple entry into game development without unnecessary overhead and a long learning process SpriteKit also provides other functionality that is useful for games including basic sound playback support and physics simulation In addition Xcode provides built in support for SpriteKit so that you can create complex special effects and texture atlases directly in Xcode This combination of framework and tools makes SpriteKit a good choice for games and other apps that require similar kinds of animation Become a master in iOS game development through this fast and fun guide In the beginning we ll tell you everything you need to plan and design your game You ll then start developing your game through step by step instructions using the various built in technologies of Xcode From there on we discuss how to deploy your game to the iOS App Store as well as monetizing it to make more revenue You will also learn advanced techniques to improve your game playing experience including better multi tasking improved performance optimization battery management and more To end the book off we ll show you how to update your game with different features then port the update to the App Store Style and approach This book provides an easy to understand and fun approach to game development with step by step instructions and detailed explanation of each block of code The topics covered range from easy to advanced so buckle up for a fast paced ride **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 *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 **Game Development with Unity 6 for Beginners** Darth C Pena,2025-08-05 Create and publish professional mobile games for iOS and Android with Unity 6 even if you re a complete beginner Game Development with Unity 6 for Beginners is your step by step guide to designing coding optimizing and releasing real mobile games Whether your dream is to build addictive 2D tap games endless runners or idle clickers this book walks you through the entire process from your first prototype to publishing on Google Play and the App Store Inside you ll learn how to Master mobile game development with Unity 6 tailored for both Android and iOS Build real playable projects including tap games endless runners and idle clickers Integrate monetization features like ads and in app purchases to earn revenue Optimize performance for mobile devices reduce memory usage and ensure smooth gameplay Publish and maintain your games professionally complete with analytics updates and feature

improvements Unlike generic tutorials this book is project based and practical you ll write complete working and fully explained code for every feature Each lesson is designed to give you confidence avoid common beginner pitfalls and prepare your game for the competitive mobile marketplace Written by Darth C Pena a passionate game development mentor and technology writer this guide reflects modern Unity 6 practices and mobile development trends It combines professional clarity and creative insight to give beginners a head start toward game development mastery If you want to create mobile games that players love publish to global app stores and start your journey as a professional Unity developer this is the only guide you ll need **Professional Visual Studio 2017** Bruce Johnson,2017-11-06 Skip the basics and delve right into Visual Studio 2017 advanced features and tools Professional Visual Studio 2017 is the industry favorite guide to getting the most out of Microsoft s primary programming technology From touring the new UI to exploiting advanced functionality this book is designed to help professional developers become more productive A unique IDE centric approach provides a clear path through the typical workflow while exploring the nooks and crannies that can make your job easier Visual Studio 2017 includes a host of features aimed at improving developer productivity and UI and this book covers them all with clear explanation new figures and expert insight Whether you re new to VS or just upgrading this all inclusive guide is an essential resource to keep within arm s reach Visual Studio 2017 fixes the crucial issues that kept professionals from adopting VS 2015 and includes new features and tools that streamline the developer s job This book provides the straightforward answers you need so you can get up to speed quickly and get back to work Master the core functionality of Visual Studio 2017 Dig into the tools that make writing code easier Tailor the environment to your workflow not the other way around Work your way through configuration debugging building deployment customizing and more Microsoft is changing their release cadence it s only been about two years since the last release so developers need to quickly get a handle on new tools and features if they hope to remain productive The 2017 release is designed specifically to help you get more done in less time with greater accuracy and attention to detail If you re ready to get acquainted Professional Visual Studio 2017 is your ideal guide **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 realityAbout 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 ForBeginner 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 mistakesIn DetailUnity 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 approachThis 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 **Mobile Game Development with Unity** Jonathon Manning,Paris Buttfield-Addison,2017-08-02 Do you want to build mobile games but lack game development experience No problem This practical guide shows you how to create beautiful interactive content for iOS and Android devices with the Unity game engine Authors Jon Manning and Paris Buttfield Addison iOS Swift Game Development Cookbook provide a top to bottom overview of Unity s features with specific project oriented guidance on how to use them in real game situations Over the course of this book you ll learn hands on how to build 2D and 3D games from scratch that will hook and delight players If you have basic programming skills you re ready to get started Explore the basics of Unity and learn how to structure games graphics scripting sounds physics and particle systems Use 2D graphics and physics features to build a side scrolling action game Create a 3D space combat simulator with projectile shooting and

respawning objects and learn how to manage the appearance of 3D models Dive into Unity s advanced features such as precomputed lighting shading customizing the editor and deployment **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 FeaturesCreate 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 **Mastering Android Game Development with Unity** Siddharth Shekar,Wajahat Karim,2017-05-25 Create enthralling Android games with Unity Faster Than Ever Before About This Book Develop complex Android games with the help of Unity s advanced features such as artificial intelligence high end physics and GUI transformations Create amazing Graphical User Interfaces GUIs with Unity s new uGUI system Unravel and deploy exciting games across Android devices Who This Book Is For If you are a Unity 5 developer and want to expand your knowledge of Unity 5 to create high end complex Android games then this book is for you Readers are expected to have a basic understanding of Unity 5 working with its environment and its basic concepts What You Will Learn Develop your own

Jetpack Joyride clone game Explore the advanced features of Unity 5 by building your own Action Fighting game Develop remarkable Graphical User Interfaces GUIs with Unity s new uGUI system Enhance your game by adding stunning particle systems and complex animations Build pleasing virtual worlds with special effects lights sky cube maps and cameras Make your game more realistic by providing music and sound effects Debug and deploy your games on different Android devices In Detail 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 You will begin with the basic concepts of Android game development a brief history of Android games the building blocks of Android games in Unity 5 and the basic flow of games You will configure an empty project for the Jetpack Joyride Clone Game add an environment and characters and control them Next you will walk through topics such as particle systems camera management prefabs animations triggers colliders and basic GUI systems You will then cover the basic setup for 3D action fighting games importing models textures and controlling them with a virtual on screen joystick Later you will set up Scene for 3D Configuration create basic gameplays and manage input controls Next you will learn to create the interface for the main menu gameplay game over achievements and high score screens Finally you will polish your game with stats sounds and Social Networking followed by testing the game on Android devices and then publishing it on Google Play Amazon and OUYA Stores Style and approach A step by step and detailed guide to developing high end complex Android games utilizing the advanced concepts of Unity **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 **Unity Artificial**

Intelligence Programming Dr. Davide Aversa,Aung Sithu Kyaw,Clifford Peters,2018-11-30 Unity 2018 provides game and app developers with a variety of tools to implement Artificial Intelligence AI Leveraging these tools via Unity s API allows limitless possibilities for creating your game s worlds and characters This edition will break down AI into simple concepts to give you a fundamental understanding of the topic to build upon   *Unity Game Development for Mobile* Ezra Falcon,2025-11-21 Building a mobile app is one thing Building one that stays maintainable through growth new features new developers and real world usage is something else entirely Mobile App Architecture Patterns is a practical guide for Android and iOS engineers who want to create apps that remain stable scalable and easy to evolve Written in clear and accessible language Ezra M Falcon explains the fundamentals of mobile architecture through real examples diagrams and step by step reasoning The book covers foundations layering testing state management modularization and long term maintenance helping you understand how to structure apps that can adapt over time You ll explore the strengths limits and use cases of major architecture patterns including MVC MVVM Clean Architecture and Redux style state management with examples for both platforms The book also examines navigation data handling repositories caching offline readiness performance considerations and how to refactor legacy screens without rewriting entire apps Each chapter includes self test questions to support learning in personal study team training or interview preparation What you will learn Core architecture principles and how they influence testing performance and team workflows The three layer model Presentation Domain and Data One way vs two way data flow and when each is useful Practical explanations of MVC MVVM Clean Architecture and Redux Navigation patterns data modeling and repository structures Testing approaches for ViewModels use cases reducers and data layers Techniques for refactoring and gradually improving existing apps Considerations for ML powered features privacy and responsible engineering Who this book is for Beginners seeking a clear understanding of app structure Android and iOS developers who want practical architecture skills Leads and architects building shared team standards Solo developers planning for long term maintainability Mobile App Architecture Patterns offers a structured practical reference for building mobile apps that remain reliable and adaptable as they grow   Learning C# by Developing Games with Unity 2021 Harrison Ferrone,2021-10-29 Learn C programming from scratch using Unity as a fun and accessible entry point with this updated edition of the bestselling series Includes invitation to join the online Unity Game Development community to read the book alongside peers Unity developers C programmers and Harrison Ferrone Purchase of the print or Kindle book includes a free eBook in the PDF format Key FeaturesLearn C programming basics terminology and coding best practicesBecome confident with Unity fundamentals and features in line with Unity 2021Apply your C knowledge in practice and build a working first person shooter game prototype in UnityBook Description The Learning C by Developing Games with Unity series has established itself as a popular choice for getting up to speed with C a powerful and versatile programming language with a wide array of applications in various domains This bestselling franchise presents a clear path for learning C

programming from the ground up through the world of Unity game development This sixth edition has been updated to introduce modern C features with Unity 2021 A new chapter has also been added that covers reading and writing binary data from files which will help you become proficient in handling errors and asynchronous operations The book acquaints you with the core concepts of programming in C including variables classes and object oriented programming You will explore the fundamentals of Unity game development including game design lighting basics player movement camera controls and collisions You will write C scripts for simple game mechanics perform procedural programming and add complexity to your games by introducing smart enemies and damage causing projectiles By the end of the book you will have developed the skills to become proficient in C programming and built a playable game prototype with the Unity game engine What you will learnFollow simple steps and examples to create and implement C scripts in UnityDevelop a 3D mindset to build games that come to lifeCreate basic game mechanics such as player controllers and shooting projectiles using C Divide your code into pluggable building blocks using interfaces abstract classes and class extensionsBecome familiar with stacks queues exceptions error handling and other core C conceptsLearn how to handle text XML and JSON data to save and load your game dataExplore the basics of AI for games and implement them to control enemy behaviorWho this book is for If you re a developer programmer hobbyist or anyone who wants to get started with Unity and C programming in a fun and engaging manner this book is for you You ll still be able to follow along if you don t have programming experience but knowing the basics will help you get the most out of this book   Unity AI Game Programming Ray Barrera,Aung Sithu Kyaw,Clifford Peters,2015 Leverage the power of Unity 5 to create fun and unbelievable AI entities in your games About This Book Compose richer games by learning the essential concepts in artificial intelligence with exciting examples Explore the brand new Unity 5 features that make implementing artificial intelligence in your game easier than ever Using this practical guide become a competent Unity 3D developer by learning AI techniques methods and the applicability of AIWho This Book Is ForThis book is intended for Unity developers with a basic understanding of C and the Unity editor Whether you re looking to build your first game or are looking to expand your knowledge as a game programmer you will find plenty of exciting information and examples of game AI in terms of concepts and implementation It does not require any prior technical knowledge of how game AI works What You Will Learn Understand the basic terminology and concepts in game AI Implement a basic finite state machine using state machine behaviors in Unity 5 Create sensory systems for your AI with the most commonly used techniques Implement an industry standard path finding system and a navigation mesh with the Unity 5 NavMesh feature Build believable and highly efficient artificial flocks and crowds Create a basic behavior tree to drive a character s actions Make your characters more engaging by implementing fuzzy logic concepts in your AI s decision making Tie all the concepts together with examples and guidesIn DetailUnity 5 provides game and app developers with a variety of tools to implement artificial intelligence Leveraging these tools via Unity s API or built in features allows limitless

possibilities when it comes to creating your game s worlds and characters Whether you are developing traditional serious educational or any other kind of game understanding how to apply artificial intelligence can take the fun factor to the next level This book helps you break down artificial intelligence into simple concepts to give the reader a fundamental understanding of the topic to build upon Using a variety of examples the book then takes those concepts and walks you through actual implementations designed to highlight key concepts and features related to game AI in Unity 5 Along the way several tips and tricks are included to make the development of your own AI easier and more efficient Starting from covering the basic essential concepts to form a base for the later chapters in the book you will learn to distinguish the state machine pattern along with implementing your own This will be followed by learning how to implement a basic sensory system for your AI agent and coupling it with a finite state machine FSM Next you will be taught how to use Unity s built in NavMesh feature and implement your own A pathfinding system Then you will learn how to implement simple flocks and crowd s dynamics the key AI concepts Then moving on you will learn how a behavior tree works and its implementation Next you will learn adding layer of realism by combining fuzzy logic concepts with state machines Lastly you learn applying all the concepts in the book by combining them in a simple tank game Style and approachAn easy to follow guide that is full of example implementations of the concepts and is accompanied by easy to understand demonstrations and explanations of the code and concepts   Unity 2022 Mobile Game Development John P. Doran,2023-06-30 Get started with mobile game development with this practical illustrated guide on how to use Unity 2022 and C to build cross platform mobile games and add augmented reality features to your projects Key Features Create deploy and monetize immersive mobile games on Android and iOS with Unity 2022 Integrate augmented reality in your mobile projects to add real world elements to your games Explore step by step instructions and a demo game project to kickstart your game development journey Book DescriptionUnity is a well established player in the mobile game development sphere and its new release Unity 2022 is packed with new exciting features In Unity 2022 Mobile Game Development Third Edition you ll get to grips with the Unity game engine by building a mobile game and publishing it on the most popular mobile app stores as well as exploring the all new features This book provides a comprehensive and practical approach to mobile game development helping you build an endless runner game Starting with setting up a simple Unity project for mobile development you ll delve into various essential aspects needed to successfully create and publish your game You ll acquire a range of skills such as incorporating touch gestures monetizing your game with Unity Ads and in app purchases designing an intuitive UI and seamlessly integrating social media functionalities Additionally you ll gain valuable insights into player preferences and behavior using Unity s analytics tools You ll also explore features of augmented reality in Unity 2022 enhancing your game s appeal By the end of this book you ll be well equipped to reap the power of Unity 2022 to build optimize and publish robust cross platform mobile games with C as well as widening your skill set and enhancing your credentials as a game developer What you will

learn Design responsive UIs for your mobile games Detect collisions receive user input and create player movements Create interesting gameplay elements using mobile device input Add custom icons and presentation options Keep players engaged by using Unity s mobile notification package Integrate social media into your projects Add augmented reality features to your game for real world appeal Make your games juicy with post processing and particle effects Who this book is for If you are a game developer or mobile developer looking to learn Unity and employ 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 isn t mandatory   <u>Game Development with Unity®, Second Edition</u> Michelle Menard,Bryan Wagstaff,2014 The Unity engine game development tool is a multi platform engine and editor rolled into one It is an ideal development tool for independent developers and students and many pro studios turn to it for fast prototyping Unity allows developers to create a single game and release it on many platforms including Android iOS and the web This completely updated edition of GAME DEVELOPMENT WITH UNITY is a tutorial style guide that provides a complete overview of the Unity editor along with step by step projects covering every basic functional aspect from asset importing to publishing Each chapter includes tutorials and small assignments geared toward making a larger game You will learn the basics of design and level theory and prototyping concepts in the virtual world You will also learn how to polish and publish your finished game A companion website features software sample levels source code and more Start learning Unity today with GAME DEVELOPMENT WITH UNITY SECOND EDITION

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