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ADKINS MILLER

Unity 3.x Game Development Essentials

Razeware LLC
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. *Pro Unity Game Development with C#* Packt Publishing Ltd
Learn How to Make 2D Games for iOS, tvOS, watchOS and macOS! Learn how to make games for all the major Apple platforms in Swift, using Apple's built-in 2D game framework: Sprite Kit. Through a series of mini-games and challenges, you will go from beginner to advanced and learn everything you need to make your own game! By the time you're finished reading this book, you will have made 6 complete mini-games, from an action game to a puzzle game to a tower defense game! Topics Covered in 2D Apple Games by Tutorials Sprites: Get started quickly and get your images onto your screen. Manual Movement: Move sprites manually

with a crash course on 2D math. Actions: Learn how to move sprites the "easy way" using SpriteKit actions. Scenes and Transitions: Make multiple screens in your app and move between them. Camera: Use Sprite Kit's built-in camera to control your view. Labels: Learn how to display text for lives, scores and more in your game. Physics: Add realistic physics behavior into your games. Beyond Sprites: Add video nodes, core image filters, and custom shapes. Particle Systems: Add explosions, star fields, and other special effects. Adding "Juice" Take your game from good to great by polishing it until it shines. Online Gaming: Add multiplayer features to your game with Apple's Game Center. Tile Maps: Make games that use tile maps with obstacles, power-ups, and more. tvOS: Learn how to port your game to the Apple TV and work with the remote. watchOS: Take advantage of the unique features of the Apple Watch. macOS: Learn how to bring 2D gaming to the desktop. And much more, including a bonus chapter on creating your own 2D game art!

Unity 2020 Mobile Game Development Apress

Master a series of performance-enhancing coding techniques and methods that help them improve the performance of their Unity3D applications About This Book Discover features and techniques to optimize Unity Engine's CPU cycles, memory usage, and the GPU throughput of any application Explore multiple techniques to solve performance issues with your VR projects Learn the best practices for project organization to save time through an improved workflow Who This Book Is For This book is intended for intermediate and advanced Unity developers who have experience with most of Unity's feature-set, and who want to maximize the performance of their game. Familiarity with the C# language will be needed. What You Will Learn 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 pitfalls Develop a solid understanding of the rendering pipeline, and maximize its performance by reducing draw calls and avoiding fill rate bottlenecks Enhance shaders in a way that is accessible to most developers, optimizing them through subtle yet effective performance tweaks Keep your scenes as dynamic as possible by making the most of the Physics engine Organize, filter, and compress your art assets to maximize performance while maintaining high quality Discover different kinds of performance problems that are critical for VR projects and how to tackle them Use the Mono Framework and C# to implement low-level enhancements that maximize memory usage and avoid garbage collection Get to know the best practices for project organization to save time through an improved workflow In Detail Unity is an awesome game development engine. Through its massive feature-set and ease-of-use, Unity helps put some of the best processing and rendering technology in the hands of hobbyists and professionals alike. This book shows you how to make your games fly with the recent version of Unity 2017, and demonstrates that high performance does not need to be limited to games with the biggest teams and budgets. Since nothing turns gamers away from a game faster than a poor user-experience, the book starts by explaining how to use the Unity Profiler to detect problems. You will learn how to use stopwatches, timers and logging methods to diagnose the problem. You will then explore techniques to improve performance through better programming practices. Moving on, you will then learn about Unity's built-in batching processes; when they can be used to improve performance, and their limitations. Next, you will import your art assets using minimal space, CPU and memory at runtime, and discover some underused features and approaches for managing asset data. You will also improve graphics, particle system and

shader performance with a series of tips and tricks to make the most of GPU parallel processing. You will then delve into the fundamental layers of the Unity3D engine to discuss some issues that may be difficult to understand without a strong knowledge of its inner-workings. The book also introduces you to the critical performance problems for VR projects and how to tackle them. By the end of the book, you will have learned to improve the development workflow by properly organizing assets and ways to instantiate assets as quickly and waste-free as possible via object pooling. Style and approach This practical book will help readers understand the essentials of the Unity3D engine and how to build games while improving the performance of their applications.

Multiplatform game development in C#
"O'Reilly Media, Inc."

Holistic Mobile Game Development with Unity: An All-In-One Guide to Implementing Mechanics, Art Design and Programming for iOS and Android Games Master mobile game design and development in this all-in-one guide to creating iOS and Android games in the cutting-edge game engine, Unity. By using Penny de Byl's holistic method, you will learn about the principles of art, design, and code and gain multidisciplinary skills needed to succeed in the independent mobile games industry. In addition, hands-on exercises will help you throughout the process from design to publication in the Apple App Store and Google Play Store. Over 70 practical step-by-step exercises recreating the game mechanics of contemporary mobile games, including Angry Birds, Temple Run, Year Walk, Minecraft, Curiosity Cube, Fruit Ninja, and more. Design principles, art, and programming in unison – the one-stop shop for indie developers requiring interdisciplinary skills in their small teams. An introduction to essential two- and three-dimensional mathematics, geometry and physics concepts. A portfolio of royalty free reusable game mechanics and assets. Accompanying website, www.holistic3d.com, features project source code, instructional videos, art assets, author blog, and teaching resources. Challenge questions and lesson plans are available online for an enhanced learning experience.

No-Code Video Game Development Using Unity and Playmaker Packt Publishing Ltd 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, ARToolKit, 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.

22nd International Conference, HCII 2020, Copenhagen, Denmark, July 19–24, 2020, Proceedings, Part III Packt Publishing Ltd

Learning C# Programming with Unity 3D, Second Edition is for the novice game programmer without any prior programming experience. Readers will learn how C# is used to make a game in Unity 3D. Many example projects provide working code to learn from and experiment with. As C# evolves, Unity 3D evolves along with it. Many new features and aspects of C# are included and explained. Common programming tasks are taught by way of making working game mechanics. The reader will understand how to read and apply C# in Unity 3D and apply that knowledge to other development environments that use C#. New to this edition: includes latest C# language features and useful tools included with the .NET library like LINQ, Local Functions Tuples, and more! Key Features Provides a starting point for the first-time programmer C# Code examples are simple short and clear Learn the very basics on up to interesting tricks which C# offers

Discover practical techniques and examples to create and deliver engaging games for Android and iOS, 2nd Edition
Simon and Schuster

In Pro Unity Game Development with C#, Alan Thorn, author of *Learn Unity for 2D Game Development* and experienced game developer, takes you through the complete C# workflow for developing a cross-platform first person shooter in Unity. C# is the most popular programming language for experienced Unity developers, helping them get the most out of what Unity offers. If you're already using C# with Unity and you want to take the next step in becoming an experienced, professional-level game developer, this is the book you need. Whether you are a student, an indie developer, or a season game dev professional, you'll find helpful C# examples of how to build intelligent enemies, create event systems and GUIs, develop save-game states, and lots more. You'll understand and apply powerful programming concepts such as singleton classes, component based design, resolution independence, delegates, and event driven programming. By the end of the book, you will have a complete first person shooter game up and running with Unity. Plus you'll be equipped with the know-how and techniques needed to

deploy your own professional-grade C# games. If you already know a bit of C# and you want to improve your Unity skills, this is just the right book for you.

Develop Custom Lighting Systems Apress
Develop your first interactive 2D platformer game by learning the fundamentals of C# About This Book Get to grips with the fundamentals of scripting in C# with Unity Create an awesome, 2D platformer game from scratch using the principles of object-oriented programming and coding in C# This is a step-by-step guide to learn the fundamentals of C# scripting to develop GameObjects and master the basics of the new UI system in Unity Who This Book Is For The book is targeted at beginner level Unity developers with no programming experience. If you are a Unity developer and you wish to learn how to write C# scripts and code by creating games, then this book is for you. What You Will Learn Understand the fundamentals of variables, methods, and code syntax in C# 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 Develop a game using the object-oriented programming principles Generate infinite levels for your game Create and code a good-looking functional UI system for your game Publish and share your game with users 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, released in March 2015, and adds a real-time global illumination to the games, and its powerful new features help to improve a game's efficiency. This book will get you started with programming behaviors in C# so you can create 2D games in Unity. You will begin by installing Unity and learning about its features, followed by creating a C# script. We will then deal with topics such as unity scripting for you to understand how codes work so you can create and use C# variables and methods. Moving forward, you will find out how to create, store, and retrieve data from collection of objects. You will also develop an understanding of loops and their use, and you'll perform object-oriented programming. This will help you to turn your idea into a ready-to-code project and set up a Unity project for production. Finally, you will discover how to create the GameManager class to manage the game play loop, generate game levels, and develop a simple UI for the game. By the end of this book, you will have mastered the art of applying C# in Unity. Style and approach This is a step-by-step guide to developing a game from scratch by

applying the fundamentals of C# and Unity scripting.

Make 4 Complete Unity Games from Scratch Using C# eBookFrenzy
Develop your first interactive 2D and 3D platform game by learning the fundamentals of C# About This Book Learn the fundamentals of C# 7 scripting to develop GameObjects and master the basics of the new UI system in Unity 2017 Build and develop your 2D game right from scratch and extend it to 3D while implementing the principles of object-oriented programming and coding in C# 7 Get to grips with the fundamentals of optimizing your game using the latest features of Unity 2017 Who This Book Is For This book is for game developers and enthusiasts who want to get started with game development with Unity 2017. No prior experience of C# is required. What You Will Learn Create your first 2D and 3D games in Unity Understand the fundamentals of variables, methods, and code syntax in C# Use loops and collections efficiently in Unity to reduce the amount of code Develop a game using object-oriented programming principles Implement simple enemy characters into the game to learn point-to-point movement and Tree behaviors Avoid performance mistakes by implementing different optimization techniques Export 3D models and animations and import them inside a Unity project In Detail Do you want to learn C# programming by creating fun and interactive games using the latest Unity 2017 platform? If so, look no further; this is the right book for you. Get started with programming C# so you can create 2D and 3D games in Unity. We will walk you through the basics to get you started with C# 7 and its latest features. Then, explore the use of C# 7 and its latest functional programming capabilities to create amazing games with Unity 2017. You will create your first C# script for Unity, add objects into it, and learn how to create game elements with it. Work with the latest functional programming features of C# and leverage them for great game scripting. Throughout the book, you will learn to use the new Unity 2017 2D tool set and create an interactive 2D game with it. You will make enemies appear to challenge your player, and discover some optimization techniques for great game performance. At the end, you will learn how to transform a 2D game into 3D, and you will be able to skill up to become a pro C# programmer with Unity 2017! Style and approach The book takes a practical, step-by-step approach where you learn C# coding while developing fun and interactive games.

HCI International 2020 - Posters Packt Publishing Ltd

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.

Learn C# Programming by building fun and interactive games with Unity Apress

Designed to give you enough familiarity in a programming language to be immediately productive, **Learning C# Programming with Unity 3D** provides the basics of programming and brings you quickly up to speed. Organized into easy-to-follow lessons, the book covers how C# is used to make a game in Unity3D. After reading this book, you will be armed with the knowledge required to feel confident in learning more. You'll have what it takes to at least look at code without your head spinning. Writing a massive multiplayer online role-playing game is quite hard, of course, but learning how to write a simple behavior isn't. Like drawing, you start off with the basics such as spheres and cubes. After plenty of practice, you'll be able to create a real work of art. This applies to writing code—you start off with

basic calculations, then move on to the logic that drives a complex game. By the end of this book, you will have the skills to be a capable programmer, or at least know what is involved with how to read and write code. Although you could go online and find videos and tutorials, there is a distinct advantage when it comes to learning things in order and in one place. Most online tutorials for C# are scattered, disordered, and incohesive. It's difficult to find a good starting point, and even more difficult to find a continuous list of tutorials to bring you to any clear understanding of the C# programming language. This book not only gives you a strong foundation, but puts you on the path to game development.

Essentials for Every Game Apress

Cover every aspect of the app industry, from app idea generation through to marketing and performance monitoring. With this book you'll receive complete, reliable, up-to-date, and professional information and guidance. Learn iOS App Distribution is every developers thorough and accessible guide to successfully distributing apps. For readers who already know how to code and create apps, this book explains how the app industry works, how it is evolving, and what the key trends are. Rather than focus on the well-covered aspects of working with Swift and Xcode, you'll instead discover what it takes from a commercial standpoint to bring an app together and get it successfully out to customers. All the key technical aspects are simplified for you with non-technical backgrounds, and vast amounts of information are condensed into easy-to-understand visuals. What You'll Learn Review how the app industry nuances and how it works Analyze app statistics and key market trends Position an app appropriately within the industry Improve app performance and related products and services Who This Book Is For App designers, UI/UX design professionals, coders, app marketers, game designers, asset designers and app publishing companies. The book is also suitable for inventors and non-tech readers unfamiliar with the industry but interested in investing in apps

Learn Unity for Android Game Development Springer Nature

The three-volume set CCIS 1224, CCIS 1225, and CCIS 1226 contains the extended abstracts of the posters presented during the 21st International Conference on Human-Computer Interaction, HCI 2020, which took place in Copenhagen, Denmark, in July 2020.* HCI 2020 received a total of 6326 submissions, of which 1439 papers and 238 posters

were accepted for publication in the pre-conference proceedings after a careful reviewing process. The 238 papers presented in these three volumes are organized in topical sections as follows: Part I: design and evaluation methods and tools; user characteristics, requirements and preferences; multimodal and natural interaction; recognizing human psychological states; user experience studies; human perception and cognition. - AI in HCI. Part II: virtual, augmented and mixed reality; virtual humans and motion modelling and tracking; learning technology. Part III: universal access, accessibility and design for the elderly; smartphones, social media and human behavior; interacting with cultural heritage; human-vehicle interaction; transport, safety and crisis management; security, privacy and trust; product and service design. *The conference was held virtually due to the COVID-19 pandemic. *Optimize all aspects of Unity performance* Apress

This book follows an informal, demystifying approach to the world of game development with the Unity game engine. With no prior knowledge of game development or 3D required, you will learn from scratch, taking each concept at a time working up to a full 3D mini-game. You'll learn scripting with C# or JavaScript and master the Unity development environment with easy-to-follow stepwise tasks. If you're a designer or animator who wishes to take their first steps into game development or prototyping, or if you've simply spent many hours sitting in front of video games, with ideas bubbling away in the back of your mind, Unity and this book should be your starting point. No prior knowledge of game production is required, inviting you to simply bring with you a passion for making great games.

Unity 2017 Mobile Game Development Pearson Education

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.

Successfully Distribute Apps CRC Press

Virtual reality is quickly becoming the next medium to communicate your ideas. Once siloed in make-believe world of science fiction, virtual reality can now touch any aspect of your life. This book shows you how to create original virtual reality content using the Unity game engine and the Virtual Reality Tool Kit. By the end of the book you'll be creating your own virtual reality experience using the fundamental building blocks within. You'll start by reviewing spatial computing, an emerging field that encompasses self-driving cars to space exploration. You'll also create your own virtual reality environments for use on headsets such as those from Oculus and HTC. Using the Unity3D game engine and the Virtual Reality Toolkit on a computer or laptop, you will walk through the fundamentals of virtual reality with as little code as possible. That is the beauty of Unity and the Virtual Reality Toolkit. You will discover how to use buttons in a virtual space, gaze-tracking for user input, and physics for enabling interaction between a human and a virtual space. From game design to education to healthcare to human resources, virtual reality offers new and creative ways to engage users, students, patients, customers, and more. Not a coding book, *Virtual Reality with VRTK4* shows that you don't need to be a computer or graphics whiz to begin creating your own virtual reality experiences. What You'll Learn Grasp Virtual Reality Toolkit and its interaction with Unity3D Explore the fundamental science of virtual reality Review the inner workings of Unity3D and its integration with VRTK Understand the big picture of C# coding in Unity3D Incorporate head and hand movement into virtual experiences Who This Book Is For Creative professionals or students who are familiar with computer design programs and want to begin prototyping their own original virtual reality work as quickly as possible. *Unity 2017 Game Optimization* CRC Press

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 walks you through all the necessary procedures, including how to publish your game to the App Store. Encompasses the Whole Range of iOS Game Development This practical book begins with advice on writing a game design document and getting Apple developer certification. It then covers the build processes of the Unity Remote application and explains how to use the Unity editor. After focusing on debugging and optimization, the author describes tips for designing and marketing a successful App Store page. The book also features two iOS-ready games to explore, adapt, and play. Source files for the game examples are available at www.crcpress.com. Guides You in Creating a Functional iOS Game Accessible to indie game developers and small- to medium-sized studios, this hands-on guide gives you the tools and knowledge needed to start building and launching iOS games. It helps you create games using Unity3D and publish them to the App Store. Beginning 3D Apple Game Development with Swift 3 Packt Publishing Ltd Designing and Developing Robust Instructional Apps advances the state of instructional app development using three learning paradigms for building knowledge foundations, problem-solving, and experimentation. Drawing on research and development lessons gleaned from noted

educational technologists, time-tested systematic instructional design processes, and results from user experience design, the book considers the planning and specification of instructional apps that blend media (text, images, sound, and moving pictures) and instructional method. Further, for readers with little to no programming experience, introductory treatments of JavaScript and Python, along with data fundamentals and machine learning techniques, offer a guided journey that produces robust instructional apps and concludes with next steps for advancing the state of instructional app development.

3D Apple Games by Tutorials Packt Publishing Ltd

Summary Manning's bestselling and highly recommended Unity book has been fully revised! Unity in Action, Second Edition teaches you to write and deploy games with the Unity game development platform. You'll master the Unity toolset from the ground up, adding the skills you need to go from application coder to game developer. Foreword by Jesse Schell, author of The Art of Game Design Purchase of the print book includes a free eBook in PDF, Kindle, and ePub formats from Manning Publications. About the Technology Build your next game without sweating the low-level details. The Unity game development platform handles the heavy lifting, so you can focus on game play, graphics, and user experience. With support for C# programming, a huge ecosystem of production-quality prebuilt assets, and a strong dev community, Unity can get your next great game idea off the drawing board and onto the screen! About the Book Unity in Action, Second Edition

teaches you to write and deploy games with Unity. As you explore the many interesting examples, you'll get hands-on practice with Unity's intuitive workflow tools and state-of-the-art rendering engine. This practical guide exposes every aspect of the game dev process, from the initial groundwork to creating custom AI scripts and building easy-to-read UIs. And because you asked for it, this totally revised Second Edition includes a new chapter on building 2D platformers with Unity's expanded 2D toolkit. What's Inside Revised for new best practices, updates, and more! 2D and 3D games Characters that run, jump, and bump into things Connect your games to the internet About the Reader You need to know C# or a similar language. No game development knowledge is assumed. About the Author Joe Hocking is a software engineer and Unity expert specializing in interactive media development. Table of Contents PART 1 - First steps Getting to know Unity Building a demo that puts you in 3D space Adding enemies and projectiles to the 3D game Developing graphics for your game PART 2 - Getting comfortable Building a Memory game using Unity's 2D functionality Creating a basic 2D Platformer Putting a GUI onto a game Creating a third-person 3D game: player movement and animation Adding interactive devices and items within the game PART 3 - Strong finish Connecting your game to the internet Playing audio: sound effects and music Putting the parts together into a complete game Deploying your game to players' devices ICISA 2017 Apress Learn Unity 2017 for iOS Game Development Create Amazing 3D Games for iPhone and iPad Apress