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Intermediate A Step By Step Guide To Coding  
Your First Game In C With Unity

# Unity 5 From Zero To Proficiency Intermediate A Step By Step Guide To Coding Your First Game In C With Unity

The Unity Engine Tutorial for Any Game Creator ħ Unity is now the world's #1 game engine, thanks to its affordability, continuous improvements, and amazing global community. With Unity, you can design, code, and author your game once, and then deploy it to multiple platforms, reaching huge audiences and earning maximum returns. Learning 2D Game Development with Unity® will help you master Unity and build powerful skills for success in today's game industry. It also includes a bonus rundown of the new GUI tools introduced in Unity's version 4.6 beta. ħ With this indispensable guide, you'll gain a solid, practical understanding of the Unity engine as you build a complete, 2D platform-style game, hands-on. The step-by-step project will get you started fast, whether you're moving to Unity from other engines or are new to game development. ħ This tutorial covers the entire development process, from initial concept, plans, and designs to the final steps of building and deploying your game. It illuminates Unity's newly integrated 2D toolset, covering sprites, 2D physics, game scripts, audio, and animations. Throughout, it focuses on the simplest and lowest-cost approaches to game development, relying on free software and assets. Everything you'll need is

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provided. ; Register your book at [informit.com/title/9780321957726](http://informit.com/title/9780321957726) to access assets, code listings, and video tutorials on the companion website. ; Learn How To Set up your Unity development environment and navigate its tools Create and import assets and packages you can add to your game Set up game sprites and create atlas sheets using the new Unity 2D tools Animate sprites using keyframes, animation controllers, and scripting Build a 2D game world from beginning to end Establish player control Construct movements that “feel right” Set up player physics and colliders Create and apply classic gameplay systems Implement hazards and tune difficulty Apply audio and particle effects to the game Create intuitive game menus and interface elements Debug code and provide smooth error handling Organize game resources and optimize game performance Publish your game to the web for others to see and play ;

Getting Started with Unity is written in an easy-to-follow tutorial format."Getting Started with Unity" is for[ 3D game developers[/color] who would like to learn how to use Unity3D and become familiar with its core features. This book is also suitable for intermediate users who would like to improve their skills. No prior knowledge of Unity3D is required.

Newly Edited and Updated Version (Third Edition) for Unity 2019 Create multiplayer games and procedural levels and boost game performances without the headaches Without this book, most people spend too long trying to learn C# with Unity the hard way. This book is the only one that will get you to learn Unity fast without

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wasting so much time. It includes six chapters that painlessly teach you the necessary skills to extract data from files, create procedural levels, connect to a database, create a network game and optimize your code for a faster and more engaging game. What you will learn After completing this book, you will be able to: - Create levels procedurally with C#, save yourself time, and speed-up the level design process. - Create levels randomly so that they are different every time the scene is loaded and add re-playability to your game. - Read XML files using C# and use the data within to create levels. - Create a space simulation using XML and C# and make your scene customizable. - Connect to a database from Unity to save and retrieve the player's score. - Create a simple network tank game with projectiles and explosions. - Create a Simon game. - Optimize your code and your project's structure Content and structure of this book The content of the books is as follows: - In Chapter 1, you will create indoors and outdoors levels from your code. - In Chapter 2, you will set-up your own database and write data from/to the database through Unity to save and update the player's score. - In Chapter 3, you will create a simple (but fun) network tank game. - In Chapter 4, you will design and implement your version of the Simon game, whereby the player has to memorize an increasing sequence of colors and sounds. - In Chapter 5, you will learn advanced techniques to boost the performance of your game, and to make your code and project easily maintainable. - Chapter 6 provides answers to frequently asked questions. If you want to start creating multi-player

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games and procedural levels using a tried-and-tested method: download this book now!

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.

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

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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.

Over 100 recipes exploring the new and exciting features of Unity 5 to spice up your Unity skillset About This Book Built on the solid foundation of the popular Unity 4.x Cookbook, the recipes in this edition have been completely updated for Unity 5 Features recipes for both 2D and 3D games Provides you with techniques for the new features of Unity 5, including the new UI system, 2D game development, new Standard Shaders, and the new Audio Mixer Who This Book Is For From beginners to advanced users, from artists to coders, this book is for you and everyone in your team! Programmers can explore multimedia features, and multimedia developers can try their hand at scripting. Basic knowledge and understanding of the Unity platform, game design principles, and programming knowledge in C# is essential. What You Will Learn Immerse players with great audio, utilizing Unity 5's audio features including

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the new Audio Mixer, ambient sound with Reverb Zones, dynamic soundtracks with Snapshots, and balanced audio via Ducking Create better materials with Unity's new, physically-based, Standard Shader Measure and control time, including pausing the game, displaying clocks and countdown timers, and even implementing "bullet time" effects Improve ambiance through the use of lights and effects such as reflection and light probes Create stylish user interfaces with the new UI system, including power-bars, clock displays, and an extensible inventory system Save and load text and media assets from local or remote sources, publish your game via Unity Cloud, and communicate with websites and their databases to create online scoreboards Discover advanced techniques, including the publisher-subscriber and state patterns, performance bottleneck identification, and methods to maximize game performance and frame rates Control 2D and 3D character movement, and use NavMeshAgents to write NPC and enemy behaviors such as seek, flee, flock, and waypoint path following In Detail Unity 5 is a flexible and intuitive multiplatform game engine that is becoming the industry's de facto standard. Learn to craft your own 2D and 3D computer games by working through core concepts such as animation, audio, shaders, GUI, lights, cameras, and scripting to create your own games with Unity 5. Completely re-written to cover the new features of Unity 5, this book is a great resource for all Unity game developers, from those who have recently started using Unity right up to Unity professionals. The first half of the book focuses on core concepts of 2D game design while

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the second half focuses on developing 3D game development skills. In the first half, you will discover the new GUI system, the new Audio Mixer, external files, and animating 2D characters in 2D game development. As you progress further, you will familiarize yourself with the new Standard Shaders, the Mecanim system, Cameras, and the new Lighting features to hone your skills towards building 3D games to perfection. Finally, you will learn non-player character control and explore Unity 5's extra features to enhance your 3D game development skills. Style and approach Each chapter first introduces the topic area and explains how the techniques covered can enhance your games. Every recipe provides step-by-step instructions, followed by an explanation of how it all works, and useful additional refinements or alternative approaches. Every required resource and C# script (fully commented) is available to download, enabling you to follow each recipe yourself. Use Unity-based examples to understand fundamental mathematical concepts and see how they are applied when building modern video game functionality. You will gain the theoretical foundation you need, and you will know how to examine and modify an implementation. This book covers points in a 3D Cartesian coordinate system, and then discusses vectors and the details of dot and cross products. Basic mathematical foundations are illustrated through Unity-based example implementations. Also provided are examples showing how the concepts are applied when implementing video game functionality, such as collision support, motion simulations, autonomous behaviors, shadow

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approximations, and reflection off arbitrary walls.

Throughout this book, you learn and examine the concepts and their applications in a game engine. What You Will Learn Understand the basic concepts of points and vectors and their applications in game development Apply mathematical concepts to modern video game functionality, such as spherical and box colliders Implement autonomous behaviors, including following way points, facing a target, chasing an object, etc. Who This Book is For Beginners, and those interested in the implementation of interactive games, who need a basic mathematical background or a refresher with modern examples

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

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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

In this book, the fourth book in the series, you will learn to create a simple network game, generate levels

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procedurally, and optimize the performance of your game. This book can be read as a standalone (you don't need to have read the previous books in the series, although it may help) and focuses on four aspects: procedural level creation, database access, multi-player networked games, and code and project optimization (i.e., memory and speed). The main idea behind this book is to save you some headaches when you need to maintain your code or expand your game, and to help you to find the time to actually code your game, by explaining simple and effective ways and best coding and organizational practices that you can use easily to create more code (and games) in less time with less stress and more fun. The content of each chapter is as follows: Chapter 1 explains how you can create procedural levels, using arrays, text files, XML files, or images, and avoid spending a lot of time creating your scene manually. Chapter 2 explains how you can read and write data from/to a database through Unity to save and update user preferences. Chapter 3 explains how to create a simple (but fun) network tank game that can be played by two remote players. Chapter 4 explains advanced techniques to boost the performance of your game, and to make your code and project easily maintainable. Chapter 5 provides answers to frequently-asked questions. The book includes: Step-by-step activities. Challenges at the end of each chapter. Quizzes. Code solutions for each chapter. Cheat-sheets (i.e., shortcuts, best practice, etc.) that you can download.

Newly Edited and Updated Version (Fourth Edition) for

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Unity 2019. Get started with Unity and game programming fast without the headaches Unity is a great software to create video games; however, it includes so many options and features that getting started can feel overwhelming. Without my book, most people spend too long trying to learn how to use Unity the hard way. This book is the only one that will get you to learn Unity fast without wasting so much time. This book is the first book in the series "Unity from Zero to Proficiency" where you will learn to code fast and be able to create your own video games with Unity in no time. What you will learn - After completing this book, you will be able to: - Know and master the features that you need to create 2D and 3D environments for your games. - Quickly create (and navigate through) realistic 3D indoors and outdoors environments. - Create a 3D Maze with lights, walls, and textures. - Use ProBuilder to create a house. - Create an island with trees, sandy beaches, mountains, and water. - Include and control a car and a plane. - Create a 2D platform game (with no scripting needed). - Export your games to the web. Who this book is for This book is for: - Hobbyists who need a book that gets them started with Unity and game development easily. - Parents looking for a book that introduces their children to game programming painlessly. - Teachers looking for a complete and clear resource on programming through the creation of games. - Aspiring indie game developers. How this book is different This is the only book that you need to get started with Unity fast and to enjoy the journey without the frustration. This book includes six chapters that painlessly guide you through the necessary

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skills to master Unity's interface, use its core features, and create and navigate through realistic 2D and 3D environments. It assumes no prior knowledge on your part and ensures that you have all the information and explanations that you need every step of the way. What this book offers This book includes all the features that you need to get started with Unity and game development: Learn without the headaches: This book assumes that you can't be expected to learn everything at once; this is why you will build all your skills incrementally. In addition, if you are more of a visual learner, you will gain access to a FREE video training that covers all the topics and features introduced in the book so that you can see how it is done. Make your dream of creating your own games come true: This book ensures that you stay motivated by giving you the right amount of information and challenge in each chapter; we all know that it's hard to keep motivated when learning a new skill, so this book always contextualizes the knowledge with an example (so that you feel it's relevant), and also makes sure that you get to challenge yourself, if you need to, with optional challenges present at the end of each chapter. Progress and feel confident in your skills: You will have the opportunity to learn and to use Unity at your own pace and to become comfortable with its interface. This is because every single new concept introduced will be explained in great detail so that you never feel lost. All the concepts are introduced progressively so that you don't feel overwhelmed. Create your own games and feel awesome: With this book, you will build your own 2D and

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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.

Build a tower defense game and earn delectable C# treats by baking cupcakes and fighting fearsome sweet-toothed pandas About This Book Build a complete and exciting 2D Tower Defense game from scratch.

Understand and learn to perform each phase of the game development pipeline Homework and exercises to improve your skills and take them to the next level Who This Book Is For If you are looking forward to get started with 2D game development, either if you are a newcomer to this world, or you came from 3D games or other game engines, this book is for you. Although there are many references to other resources throughout the book, it is assumed that you have a general understanding of C# and its syntax and structure. What You Will Learn Import and set up assets for 2D game development Design and implement dynamic and responsive User Interfaces Create and handle complex animation systems Unlock all the potentiality of the physics engine Implement Artificial Intelligence algorithms to give intelligence to your NPCs Script gameplay and overall bring your ideas to life In Detail Want to get started in the world of 2D game development with Unity? This book will take your hand and guide you through this amazing journey to let you know exactly what you need to build the games you want to build, without sacrificing quality. You will build a

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solid understanding of Unity 5.x, by focusing with the embedded tools to develop 2D games. In learning about these, along with accurate explanations and practical examples, you will design, develop, learn how to market and publish a delectable Tower Defense game about cupcakes versus pandas. Each chapter in this book is structured to give you a full understanding on a specific aspect of the workflow pipeline. Each of these aspects are essential for developing games in Unity. In a step-by-step approach, you will learn about each of the following phases: Game Design, Asset Importing, Scripting, User Interfaces, Animations, Physics, Artificial Intelligence, Gameplay Programming, Polishing and Improving, Marketing, Publishing and much more. This book provides you with exercises and homework at the end of each chapter so that you can level up your skills as a Unity game developer. In addition, each of these parts are centered on a common point of discussion with other learners just like you. Therefore, by sharing your ideas with other people you will not only develop your skills but you will also build a network. Style and approach This is a fun step-by-step approach in the whole pipeline of 2D game development in Unity, which is explained in a conversational and easy-to-follow style. Each topic is explained sequentially, allowing you to experience both basics and advanced features of Unity. By doing this, the book is able to provide you with a solid grasp on each of the topics. In this way, by engaging with the book's content, exploring the additional references to further readings and completing the homework sections, you are able to challenge yourself and apply what you know in a

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variety of ways. Once you have finished reading this book, you will be well on your way to developing games from start to finish!

Content and structure of this book In this book, the second book in the series, you will become comfortable with C# programming and Unity by creating three games: one 3D survival game, a word-guessing game, and an infinite Runner. The book includes: A list of the learning objectives at the start of each chapter. Step-by-step activities. Opportunities to engage in deeper learning and problem-solving skills through challenges at the end of each chapter. Quizzes to test your knowledge. Full project and code solutions (in C#) for each chapter. Cheat-sheets (i.e., shortcuts, best practice, etc.) that you can download. The content of each chapter is as follows: Chapter 1 gives an introduction to C# and to core principles that will help you to get started with coding. You will learn key programming concepts such as variables, variable types, or functions. Chapter 2 helps you to code your first script. You will learn how to code following best coding practices, debug your code, and also avoid common errors. Chapter 3 gets you to improve your scripting skills, enhance your game and add more interaction. You will learn to implement a scoring system, to detect collisions, and to load new levels. Chapter 4 explains how you can create and update a user interface for your game (e.g., displaying images and messages onscreen) using scripting. Chapter 5 explains how you can polish-up your game. You will add a splash-screen, a simple inventory system, sound effects, as well as a mini-map. Chapter 6 explains

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how to add Non-Player Characters (NPCs) with Artificial Intelligence (AI). You will configure each NPC and get them to either follow the player or walk along a simple path of your choice, and also detect collision between the NPCs and the player. Chapter 7 explains how to create a word-guessing using Unity's 2D features. You will use arrays, and read files to create a list from which a random word will be picked and that the user will have to guess. You will also learn to detect and process the user's key entries. Chapter 8 will show you how to create an entertaining 2D infinite runner where the player can control a character that needs to jump over randomly generated obstacles. Chapter 9 provides answers to Frequently Asked Questions (FAQs) (e.g., scripting, audio, AI, or user interface). If you want to start coding in C# and create your own game with Unity using a tried-and-tested method: download this book now

Unity is the most exciting and popular game engine. After the latest release, Unity has become the primary source of game and Virtual Reality development throughout the world. In this book, you'll learn how to use Unity by making amazing games from popular genres; from an action shooter to a mindbending puzzle game, from an adventure to a VR game.

This book is an easy-to-follow guide that incrementally develops the game framework and missions, step-by-step, with each chapter. Extensive source code is provided and explained in detail to support and explain each of the concepts in the book. This book is intended for novice game programmers with a little experience in Unity3D, who want to learn how to program eLearning

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games. Educators and trainers who want to use Unity in an eLearning setting will also benefit from the book. It would be helpful to have a basic understanding of the concepts such as Unity scripting and the Finite State Machine (FSM), but no prior experience in game development is required.

First Edition, Published in September 2019 Content and structure of this book In this book, the fifth book in the series, you will become comfortable with creating your own RPG. If you were ever interested in creating systems for your game to speed-up your coding and create and maintain levels easily, then this book is for you. The book includes a list of the learning objectives at the start of each chapter, step-by-step activities, and quizzes to test your knowledge, and the content of each chapter is as follows: - Chapter 1 gives an introduction to the RPG genre. You will learn the design principles that will help you to speed-up your development process. - Chapter 2 helps you to create and animate your main 3D character, add a camera that will follow this character as well as a mini-map. You will also learn to use ProBuilder to create a village. - Chapter 3 explains how to create a dialogue system from an XML file, and how to integrate it seamlessly into your game. - Chapter 4 explains how you can create a simple inventory system and use it to collect, store, and use items that you will find in your quest. - Chapter 5 shows you how to create a shop where the player can buy items that will then be added to the inventory. - Chapter 6 explains how you can create different types of animated and intelligent NPCs that will challenge the player. - Chapter 7 explains how you can

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create a quest system based on an XML file to manage the objectives for each of your levels. You will learn to read, and use this file for your game. - Chapter 8 explains how you can create an XP attribution system where the player can use the Xps gained in the previous level to increase his/her skills (e.g., accuracy, power, etc.) - Chapter 9 shows you how you can create a maze randomly using a procedural method so that the maze is different every time the game is played. - Chapter 10 combines the skills that you have learned so far to create a final level where the player needs to eliminate guards, collect gold, and also defeat the boss. After reading this book you will become a better game programmer, improve your knowledge of coding and unity, understand how to make a more complex product, learn some techniques to make an RPG game more modular, especially the quest system, use reusable code/assets that you can employ in your own game, create an inventory for your characters and much more... If you want to get started with your first RPG in Unity and learn reusable systems for your other games, using a tried-and-tested method: buy this book now!

Find out how to use the Unity Game Engine to its fullest for both 3D and 2D game development—from the basics to the hottest new tricks in virtual reality. With this unique cookbook, you'll get started in two ways: First, you'll learn about the Unity game engine by following very brief exercises that teach specific features of the software. Second, this tutorial-oriented guide provides a collection of snippets that solve common gameplay problems, like determining if a player has completed a lap in a race

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Using our cookbook format, we pinpoint the problem, set out the solution, and discuss how to solve your problem in the best and most straightforward way possible so you can move onto the next step in the project. Unity Game Development Cookbook is ideal for beginning to intermediate Unity developers. Beginners will get a broad immersion into the Unity development environment, while intermediate developers will learn how to apply the foundational Unity skills they have to solve real game development problems.

Why this book can help you to get started fast with Card Games and Unity It can be intimidating to start with Unity, and while several books can provide comprehensive information, you may, like many other readers, just want to focus on a specific topic and get started fast. This book is part of a series entitled A Quick Guide To, and does just this. In this book series, you have the opportunity to get started on a specific topic in less than 60 minutes, delving right into the information that you really need. Of course, you can, after reading this book, move-on to more comprehensive books; however, quite often, you may have little time to complete a project or to get comfortable with a topic fast. In this book entitled A Quick Guide to Card Games with Unity, you will discover how to create most of the features found in card games by using simple techniques , and you will learn and practice as you go. By following the techniques and suggestions described in this short book, I can promise you that you will get started very fast and create a simple card matching game. Along the way, you will also learn about C#, sprites, and events and combine these skills to create a card game. Content and structure of this book In this book, you will learn about card games with Unity, including: - Setting-up the interface. - Creating a game manager. - Adding multiple cards automatically. - Associating

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the correct image to each card. - Shuffling the cards. -  
Allowing the player to choose and move cards. - Checking for  
a match The main idea behind this book is to help you to get  
started quickly with card games. So, if you want to start  
creating challenging games with simple, yet effective  
techniques : download this book now!

If you want to build enticing projects with Unity, this book is  
for you. Readers who are familiar with the basics of how to  
create simple projects in Unity will have an easier time.

Whether you are new to C# or a seasoned developer just  
starting with Unity, you may find it difficult to use C# in Unity  
because: - You are new to C#. - You already have some  
coding experience in C# but you may find that many concepts  
in Unity (e.g., components) are different from working in  
straight C# code. - You have started coding in C# but you  
would like more examples specific to C# with Unity, including  
advanced features. The thing is, regardless of the game that  
you want to create with Unity, if you want to harness the  
power of this game engine you will need to understand C#.

Use this in-depth Resource to Truly Master C# and Unity You  
may be able to "slap" some code together to get the job done,  
but you may wish you could understand the code in more  
depth and be able to come-up with your own code that scales-  
up painlessly; and this makes sense because if you truly want  
to create code that is efficient, scalable, and that leverages all  
the features available in Unity, you will probably need to learn  
C# in more depth, but also to understand how it can be  
combined to Unity's built-in libraries properly. There are  
plenty of resources out there; however very few explain C# in  
the context of Unity; and although they may provide code  
solutions, they may not give in-depth explanations on the C#  
concepts and the design ideas behind the code, or explain  
how the code can be optimized, so that you can avoid issues  
linked to memory or maintainability down the line. This is the

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reason why I have created this book. The idea behind its design is to provide a resource for different types of readers (i.e., beginner, intermediate or advanced programmers), to explain C# concepts in-depth, in the context of Unity, and to provide practical information and step-by-step instructions. This book was created to answer frequently-asked questions about C# programming for Unity. It includes over 300 pages of step-by-step instructions to help you become more proficient in C# for Unity. After reading this book, you should be able to (1) Understand C# and Object-Oriented Programming in-depth, (2) apply these concepts in Unity and implement common game mechanics through the built-in classes available in Unity, and (3) optimize your code so that it is easy to maintain. Find the Solution to your Problems in this 300-page Guide After using this book you will be able to solve your C# headaches. Each chapter can be read independently so that you can find and apply the solutions to a specific problem immediately. - Chapter 1 explains C# concepts in depth so that you can become proficient in C# programming and Object-Oriented concepts (e.g., inheritance, constructors, polymorphism, overloading, overriding, etc.) - Chapter 2 shows you how to code and debug C# scripts along with some best practices that will keep your code clean and bug-free. - Chapter 3 explains key concepts in linear algebra so that you can understand and use vectors in Unity (e.g., dot products for vision). - Chapter 4 acts as a cook book where you will find sections that explain how key (and frequently used) methods and C# classes can be employed to improve your gameplay, and you can go directly to the section that you need for your game (e.g., audio, detection, user-inputs, reading files, etc) and find both explanations and code examples that you can use immediately. - Chapter 5 shows you how to optimize your code and to structure it so that it is easier to maintain using

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component-based programming, design patterns and useful structures such as delegates or coroutines. - Chapter 6 answers Frequently Asked Questions (FAQs) related to C#. If you want to solve your C# programming headaches and to really understand how C# and Unity work together effectively, download this book now.

Follow a walkthrough of the Unity Engine and learn important 2D-centric lessons in scripting, working with image assets, animations, cameras, collision detection, and state management. In addition to the fundamentals, you'll learn best practices, helpful game-architectural patterns, and how to customize Unity to suit your needs, all in the context of building a working 2D game. While many books focus on 3D game creation with Unity, the easiest market for an independent developer to thrive in is 2D games. 2D games are generally cheaper to produce, more feasible for small teams, and more likely to be completed. If you live and breathe games and want to create them then 2D games are a great place to start. By focusing exclusively on 2D games and Unity's ever-expanding 2D workflow, this book gives aspiring independent game developers the tools they need to thrive. Various real-world examples of independent games are used to teach fundamental concepts of developing 2D games in Unity, using the very latest tools in Unity's updated 2D workflow. New all-digital channels for distribution, such as Nintendo eShop, Xbox Live Marketplace, the Playstation Store, the App Store, Google Play, itch.io, Steam, and GOG.com have made it easier than ever to discover, buy, and sell games. The golden age of independent gaming is upon us, and there has never been a better time to get creative, roll up your sleeves, and build that game you've always dreamed about. Developing 2D Games with Unity can show you the way. What You'll Learn Delve deeply into useful 2D topics, such as sprites, tile slicing, and the brand new

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Tilemap feature. Build a working 2D RPG-style game as you learn. Construct a flexible and extensible game architecture using Unity-specific tools like Scriptable Objects, Cinemachine, and Prefabs. Take advantage of the streamlined 2D workflow provided by the Unity environment. Deploy games to desktop Who This Book Is For Hobbyists with some knowledge of programming, as well as seasoned programmers interested in learning to make games independent of a major studio.

This fifth edition of the popular C# guide helps you learn the building blocks of C# language, right from variables to classes and exception handling. After getting to grips with the basics of C# programming, it takes you through the world of Unity game development and how you can apply C# knowledge using game development examples.

Creating your own game can be very intimidating at the start, and quite often, regardless of your experience with games, it is sometimes difficult to find the time and motivation to get over the first barriers and get started. In this book you will become comfortable with Unity's interface and core features, by creating a project (with no coding involved) that includes both an indoor and an outdoor environment.

Build immersive game experiences using the new Unity 2020 features with this practical guide Key Features Unleash the capabilities of C# scripting for creating immersive UI, graphics, Game AI agents and much more Explore Unity's latest tools, including Universal Render Pipeline, Shader Graph, and VFX graph, to enhance graphics and animation Get started with building augmented reality experience using Unity's AR Foundation Book Description Over the years, the Unity game engine has extended its scope from just being about creating video games to building AR/VR experiences, complex simulations, real-time realistic rendering, films, and serious games for training and education. Its features for

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implementing gameplay, graphics, and customization using C# programming make Unity a comprehensive platform for developing professional-level, rich experiences. With this book, you'll be able to build impressive Unity projects in a step-by-step manner and apply your knowledge of Unity concepts to create a real-world game. Complete with hands-on tutorials and projects, this easy-to-follow guide will show you how to develop your first complete game using a variety of Unity tools. As you make progress, you'll learn how to make the most of the Unity Editor and create scripts using the C# programming language. This Unity game development book will then take you through integrating graphics, sound, and animations and manipulating physics to create impressive mechanics for your games. You'll also learn how to code a simple AI agent to challenge the user and use profiling tools to ensure that the code runs in a performant way. Finally, you'll get to grips with Unity's AR Foundation for creating AR experiences for 3D apps and games. By the end of this book, you'll have developed a complete game and will have built a solid foundation using Unity's tooling ecosystem to develop game projects of any scale. What you will learn

- Write scripts for customizing various aspects of a game, such as physics, gameplay, and UI
- Program rich shaders and effects using Unity's new Shader Graph and Universal Render Pipeline
- Implement postprocessing to increase 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
- Implement game artificial intelligence (AI) to control character behavior
- Detect and fix optimization issues using profilers and batching

Who this book is for This book is for game developers looking to migrate to the Unity game engine. If you are a developer with some exposure to Unity, this book will help you explore its

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latest features. Prior experience with C# programming is required to get the most out of the book.

Provides information on using the Unity game engine to build games for any platform, including the Web, the Wii, and on smartphones.

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

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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.

A recipe-based guide to give you practical information on Unity 5.x animation techniques and tools About This Book A straightforward and easy-to-follow format. A selection of the most important tasks

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and problems. Carefully organized instructions to solve problems efficiently. Clear explanations of what you did. Solutions that can be applied to solve real-world problems. Who This Book Is For This book is for Unity developers who have some exposure to Unity game development who want to learn the nuances of animation in Unity. Previous knowledge of animation techniques and mecanim is not necessary. What You Will Learn Importing animations to Unity Work with different animation assets and components Create, visualize, and edit animated creatures Animating game cut scenes Design character actions and expressions Create gameplay by animating characters and environments Use animations to drive in-game logic In Detail This recipe-based practical guide will show you how to unleash the power of animation in Unity 5.x and make your games visually impeccable. Our primary focus is on showing you tools and techniques to animate not only humanoid biped characters, but also other elements. This includes non-humanoid character animation, game world creation, UI element animation, and other key features such as opening doors, changing lights, transitioning to different scenes, using physics, setting up ragdolls, creating destructible objects and more. While discussing these topics, the book will focus on mecanim, the Unity 3D animation tool, and how you can use it to perform all these tasks efficiently and

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quickly. It contains a downloadable Unity project with interactive examples for all the recipes. By the end of this book, you will be confident and self-sufficient in animating your Unity 3D games efficiently. Style and approach This practical no-nonsense guide is recipe-based with real-world examples of almost all the techniques mentioned.

A complete beginner's guide to game development with the powerful Unity game engine. CS Instructor and game designer, Mike Geig, offers a do-it-yourself approach to game development - with all of the main essentials covered. In just 24 hours, learn how to get started developing games with Unity with a hands-on and modular approach. Each chapter covers an essential component of the game development process, illustrated with sample projects, and including full source code, all 3rd party art assets (textures, fonts, models), and all 3rd party sound assets.

Get started with 2D Games and Unity without the headaches Without my book, most people spend too long trying to create 2D games and learn C# with Unity the hard way. This book is the only one that will get you to learn Unity fast without wasting so much time. It includes 15 chapters that painlessly teach you the necessary skills to master C# with Unity and to create 2D interactive games. What you will learn After completing this book, you will be able to: - Code in C#. - Understand and apply C#

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concepts. - Create 2D games. - Create a wide range of 2D games including a 2D platformer, a shooter, a word-guessing game, a memory game, a card game, and a puzzle. - Create and use C# variables and methods for your game. - Include intelligent NPCs that chase the player. - Manage collisions, key inputs, and colliders. - Create an update a user interface. - Load new scenes from the code, based on events in your games. Content and structure of this book The content of each chapter is as follows: - Chapters 1, 2, 3, 4, and 5 will show you how to create a platformer game with most of the features that you usually find in this genre. - Chapters 6, 7, 8, 9, and 10 will show you how to create a shooter game with a moving space ship controlled by the player, a scrolling background, missiles, moving asteroids, and much more. - Chapter 11 will show you how to create a word guessing game where the player needs to guess a word, picked at random. - Chapter 12 will show you how to create a memory game based on the famous "Simon Game". - Chapter 13 will show you how to create a card-guessing game where the player needs to memorize the location of cards on a board and to also match identical cards in order to win. - Chapter 14 will show you how to create a puzzle where the player has to move and combine puzzle pieces to complete the puzzle. If you want to start coding in C# and create your own 2D games with Unity using a tried-and-

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tested method: download this book now

Unity for Absolute Beginners walks you through the fundamentals of creating a small third-person shooter game with Unity. Using the free version of Unity to begin your game development career, you'll learn how to import, evaluate and manage your game resources to create awesome third-person shooters. This book assumes that you have little or no experience with game development, scripting, or 3D assets, and that you're eager to start creating games as quickly as possible, while learning Unity in a fun and interactive environment. With Unity for Absolute Beginners you'll become familiar with the Unity editor, key concepts and functionality. You'll learn how to import, evaluate and manage resources. You'll explore C# scripting in Unity, and learn how to use the Unity API. Using the provided art assets, you will learn the fundamentals of good game design and iterative refinement as you take your game from a simple prototype to a quirky, but challenging variation of the ever-popular first-person shooter. As can be expected, there will be plenty of destruction, special effects and mayhem along the way. Unity for Absolute Beginners assumes that you have little or no experience with game development, scripting, or 3D assets, but are eager to get up-to-speed as quickly as possible while learning Unity in a fun and interactive environment.

This book uses the learning-by-example approach. It

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takes simple examples from games to introduce all the main concepts of programming in an easy-to-digest and immediately recognizable way. This book is for the total beginner to any type of programming, focusing on the writing of C# code and scripts only. There are many parts that make up the Unity game engine. It is assumed that the reader already knows their way around Unity's user interface. The code editor used in this book is the MonoDevelop editor supplied by Unity.

Unity Android Game Development by Example Beginner's Guide consists of different game application examples. No prior experience with programming, Android, or Unity is required. You will learn everything from scratch and will have an organized flow of information specifically designed for complete beginners to Unity. Great for developers new to Unity, Android, or both, this book will walk you through everything you need to know about game development for the Android mobile platform. No experience with programming, Android, or Unity is required. Most of the assets used in each chapter project are provided with the book, but it is assumed that you have some access to basic image and model creation software. You will also need access to an Android powered device.

Get started with Godot and game programming fast without the headaches Godot is a great software to create video games; however, it includes so many

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options and features that getting started can feel overwhelming. Without my book, most people spend too long trying to learn how to use Godot the hard way. This book is the only one that will get you to learn Godot fast without wasting so much time. This book is the first book in the series “Godot from Zero to Proficiency” where you will learn to code fast and be able to create your own video games with Godot in no time. What you will learn After completing this book, you will be able to:

- Know and master the features that you need to create 3D environments for your games.
- Quickly create (and navigate through) realistic 3D indoors and outdoors environments.
- Create a 3D Maze with lights, walls, and textures.
- Create an island with sandy beaches, mountains, and water.
- Include and control a car.
- Export your games for Mac or PC.

Who this book is for This book is for:

- Hobbyists who need a book that gets them started with Godot and game development easily.
- Parents looking for a book that introduces their children to game programming painlessly.
- Teachers looking for a complete and clear resource on programming through the creation of games.
- Aspiring indie game developers.

How this book is different This is the only book that you need to get started with Godot fast and to enjoy the journey without the frustration. This book includes six chapters that painlessly guide you through the necessary skills to master Godot’s interface, use its

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core features, and create and navigate through realistic 3D environments. It assumes no prior knowledge on your part and ensures that you have all the information and explanations that you need every step of the way. What this book offers This book includes all the features that you need to get started with Godot and game development:

- Learn without the headaches: This book assumes that you can't be expected to learn everything at once; this is why you will build all your skills incrementally.
- Make your dream of creating your own games come true: This book ensures that you stay motivated by giving you the right amount of information and challenge in each chapter; we all know that it's hard to keep motivated when learning a new skill, so this book always contextualizes the knowledge with an example (so that you feel it's relevant), and also makes sure that you get to challenge yourself, if you need to, with optional challenges present at the end of each chapter.
- Progress and feel confident in your skills: You will have the opportunity to learn and to use Godot at your own pace and to become comfortable with its interface. This is because every single new concept introduced will be explained in great detail so that you never feel lost. All the concepts are introduced progressively so that you don't feel overwhelmed.
- Create your own games and feel awesome: With this book, you will build your 3D environments and you will spend more time

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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 Godot today, then buy this book now

If you don't know anything about programming in general, writing code, writing scripts, or have no idea where to even begin, then this book is perfect for you. If you want to make games and need to learn how to write C# scripts or code, then this book is ideal for you. Unity is a cross-platform development platform initially created for developing games but is now used for a wide range of things such as: architecture, art, children's apps, information management, education, entertainment, marketing, medical, military, physical installations, simulations, training, and many more. Unity takes a lot of the complexities of developing games and similar interactive experiences and looks after them behind the scenes so people can get on with designing and developing their games. These complexities include graphics rendering, world physics and compiling. More advanced users can interact and adapt them as needed but for beginners they need not worry about it. Games in Unity are developed in two halves; the first half -within the Unity editor, and the second half -using code, specifically C#. Unity is bundled with MonoDevelop or Visual Studio 2015 Community for writing C#.

Unity is a feature-rich, fully-integrated development engine that provides out-of-the-box functionality for the creation of interactive 3D content. It is an exciting engine that has a rich and sophisticated animation system called Mecanim. Unity Animation Essentials offers a comprehensive introduction to powerful animation tools and principles in Unity, which can be used to make great games. This book starts by exploring core

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animation concepts and then dives deeper to demonstrate their practical application in real-time games. This book shares extensive and useful insights to create animations using a professional grade workflow, and to create responses and interactive scenes. Each chapter focuses on a specific range of topics, from timing and events to character animation and particle systems. By the end of the book, you should be able to fully utilize the powers of Mecanim and Unity.

Get Started with Game Programming Fast Getting started with Unity can be tedious if the resource that you are using doesn't have an approach tailored to your needs. In the past, I have seen how a simple yet detailed approach to teaching Unity can make a real difference to a student's ability to create games confidently and successfully and I have made sure that everything has been included in this book to make your journey enjoyable and to guarantee your success in the creation of video games with Unity. How this book is different With this book, you will not only learn about Unity but you will also enjoy the journey without the frustration. This book includes six chapters that painlessly guide you through the necessary skills to master Unity's interface, use its core features, and create and navigate through realistic 2D and 3D environments. It assumes no prior knowledge on your part and ensures that you have all the information and explanations that you need every step of the way. All the information is introduced progressively. This book is for parents or teachers who would like to introduce their children or students to game development; it is also for hobbyist just getting started with Unity, or aspiring indie game developers. What this book offers This book includes all the features that will guarantee your success as an aspiring game developer: > A book truly designed for beginners This book also assumes that you can't be expected to learn everything at once; this is why you will build all your skills incrementally. In addition, if

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you are more of a visual learner, you will gain access to a FREE video training that covers all the topics and features introduced in the book so that you can see how it is done. > You will be kept motivated throughout the book This book ensures that you stay motivated by giving you the right amount of information and challenge in each chapter; we all know that it's hard to keep motivated when learning a new skill, so this book always contextualizes the knowledge with an example (so that you feel it's relevant), and also makes sure that you get to challenge yourself, if you need to, with optional challenges present at the end of each chapter. > You will never feel lost or overwhelmed You will have the opportunity to learn and use Unity at your own pace and to become comfortable with its interface. This is because every single new concept introduced will be explained. Every step is explained in great details so that you never feel lost. All the concepts are introduced progressively so that you don't feel overwhelmed. > You will learn by doing 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. What you will learn After completing this book, you will be able to: Feel comfortable with Unity's core features. Apply transformations (e.g., rotate, or scale). Create a 3D Maze with lights, walls, and textures. Create an island with trees, sandy beaches, mountains, and water. Use cameras and vehicles. Create a 2D platform game (with no scripting). Export your games to the web. Still not sure? Scroll to the top of this page and click on the book's cover to "look inside" this book to see the topics covered, learn more about Patrick's background and determine if reading "Unity from Zero to Proficiency (Foundations)" will be a worthwhile investment. If you want to get started with Unity today, then

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buy this book now

Mastering Unity Scripting is an advanced book intended for students, educators, and professionals familiar with the Unity basics as well as the basics of scripting. Whether you've been using Unity for a short time or are an experienced user, this book has something important and valuable to offer to help you improve your game development workflow.

Newly Edited and Updated Version (Third Edition) for Unity 2019 Learn C# with Unity, and create a full FPS game without the headaches Without this book, most people spend too long trying to learn C# with Unity the hard way. This book is the only one that will get you to learn Unity fast without wasting so much time. It includes twelve chapters that painlessly teach you the necessary skills to create an FPS game and to learn intermediate C# and Unity techniques. What you will learn After completing this book, you will be able to: - Use Unity's built-in methods. - Use Rigidbody physics to propel airborne objects. - Use a Finite State Machine to create intelligent NPCs. - Manage 3D animations for the NPCs. - Create NPCs who can chase the player. - Create and manage weapons and ammunition for the player. - Create a 2D scrolling shooter. - Create a card-guessing game. - Create a 2D puzzle game. Content and structure of this book The content of the books is as follows: - In Chapter 1, you will learn key C# programming concepts such as variables, variable types, polymorphism, or constructors. - In Chapter 2, you will code and compile your first script in C#. - In Chapter 3, you will create a simple 3D game where the user has to reach the end of the level by avoiding projectiles from intelligent robots. - In Chapter 4, you will create a gun and a grenade launcher that the player can use to defeat enemies. - In Chapter 5, you will start to use Mecanim and NavMesh navigation to control an animated character that detects, follows, or attacks the player. - In Chapter 6, you will combine

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the skills that you have acquired in the previous chapters to create a fully functional level where the player needs to escape a level full of armed NPCs. You will also learn how to generate a game level dynamically from your code. - In Chapter 7, you will create a simple 2D scrolling shooter. - In Chapter 8, you will improve your game by adding explosions and a scrolling background. - In Chapter 9, you will add intelligent spaceships that attack the player. - In Chapter 10, you will include a shield to the player's spaceship, along with other interesting features (e.g., sound FX, a scoring system, etc). - In Chapter 11, you will create a card-guessing game. - In Chapter 12, you will create a 2D puzzle game. - Chapter 13 summarizes the topics covered in the book. If you want to create FPS games, 2D Shooters, Card Games and Puzzles with Unity using a tried-and-tested method: download this book now!

In just 24 lessons of one hour or less, Sams Teach Yourself Unity Game Development in 24 Hours will help you master the Unity 5 game engine at the heart of Hearthstone: Heroes of Warcraft, Kerbal Space Program, 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.

Beginning 3D Game Development with Unity is perfect for those who would like to come to grips with programming Unity. You may be an artist who has learned 3D tools such as

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3ds Max, Maya, or Cinema 4D, or you may come from 2D tools such as Photoshop and Illustrator. On the other hand, you may just want to familiarize yourself with programming games and the latest ideas in game production. This book introduces key game production concepts in an artist-friendly way, and rapidly teaches the basic scripting skills you'll need with Unity. It goes on to show how you, as an independent game artist, can create casual interactive adventure games in the style of Telltale's Tales of Monkey Island, while also giving you a firm foundation in game logic and design. The first part of the book explains the logic involved in game interaction, and soon has you creating game assets through simple examples that you can build upon and gradually expand. In the second part, you'll build the foundations of a point-and-click style first-person adventure game—including reusable state management scripts, load/save functionality, a robust inventory system, and a bonus feature: a dynamically configured maze and mini-map. With the help of the provided 2D and 3D content, you'll learn to evaluate and deal with challenges in bite-sized pieces as the project progresses, gaining valuable problem-solving skills in interactive design. By the end of the book, you will be able to actively use the Unity 3D game engine, having learned the necessary workflows to utilize your own assets. You will also have an assortment of reusable scripts and art assets with which to build future games.

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