
Game Development With Unity

C# Game Programming Cookbook for Unity 3D
Hands-On Unity 2021 Game Development
Beginning 3D Game Development with Unity
Learn Unity for 2D Game Development
Hands-On Unity 2020 Game Development
Unity 3.x Game Development Essentials
Practical Game Development with Unity and Blender
Unity Android Game Development by Example Beginner's Guide
Holistic Mobile Game Development with Unity
Unity Game Development Essentials
Unity Game Development Blueprints
Game Development Patterns with Unity 2021
Unity in Action
Unity 2020 Mobile Game Development
Learn Unity for Windows 10 Game Development
Unity Game Development Scripting
Holistic Game Development with Unity 3e
Mastering Unity 2D Game Development
Mastering Unity 2D Game Development
2D Game Development with Unity
Basic Math for Game Development with Unity 3D
Developing 2D Games with Unity
Game Programming with Unity and C#
Basic Math for Game Development with Unity 3D
Learn Unity for Android Game Development
Unity Game Development in 24 Hours, Sams Teach Yourself
Beginning 3D Game Development with Unity 4
Unity Game Development Cookbook
Sams Teach Yourself Unity Game Development in 24 Hours
Unity Game Development in 24 Hours, Sams Teach Yourself
Mobile Game Development with Unity
Game Development with Unity
Unity Android Game Development by Example Beginner's Guide
Unity Game Development Cookbook
Game Programming with Unity and C#
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Pro Unity Game Development with C#
3D Game Development with Unity
Mastering Android Game Development with Unity
Beginning 3D Game Development with Unity

BROOKLYNN ZIMMERMAN

C# Game Programming Cookbook for Unity 3D Taylor & Francis

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 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

Hands-On Unity 2021 Game

Development Apress

Beginning 3D Game Development with Unity 4 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 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 interactive games, ideal in scope for today's casual and mobile markets, 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, dialogue trees for character interaction, 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. What you'll learn How to build interactive games that work on a variety of platforms Take the tour around Unity user interface fundamentals, scripting and more Create

a test environment and gain control over functionality, cursor control, action objects, state management, object metadata, message text and more What is inventory logic and how to manage it How to handle 3D object visibility, effects and other special cases How to handle variety of menus and levels in your games development How to handle characters, scrollers, and more How to create or integrate a story/walkthrough How to use the new Mecanim animation Who this book is for Students or artists familiar with tools such as 3ds Max or Maya who want to create games for mobile platforms, computers, or consoles, but with little or no experience in scripting or the logic behind games development. Table of Contents 01. Introduction to Game Development 02. Unity UI basics 03. Introduction to Scripting 04. Terrain Generation and Environment 05. Exploring Navigation 06. Cursor Control and Interaction 07. Importing Assets 08. Action Objects 09. Managing State 10. Exploring Transitions 11. Physics and Special Effects 12. Message Text and HUD 13. Inventory Logic 14. Managing Inventory 15. Dialogue Trees 16. Mecanim 17. Game Environment 18. Setting up the Game 19. Menus and Levels

Beginning 3D Game Development with Unity Muska/Lipman

A practical guide on how to use Unity for building cross-platform mobile games and Augmented Reality apps using the latest Unity 2020 toolset Key Features Create, deploy, and monetize captivating and immersive games on Android and iOS platforms Take your games into the real world by adding augmented reality features to your mobile projects Kick-start your mobile game development journey with step-by-step instructions and a demo game

projectBook Description Unity 2020 brings a lot of new features that can be harnessed for building powerful games for popular mobile platforms. This updated second edition delves into Unity development, covering the new features of Unity, modern development practices, and augmented reality (AR) for creating an immersive mobile experience. The book takes a step-by-step approach to building an endless runner game using Unity to help you learn the concepts of mobile game development. This new edition also covers AR features and explains how to implement them using ARCore and ARKit with Unity. The book explores the new mobile notification package and helps you add notifications for your games. You'll learn how to add touch gestures and design UI elements that can be used in both landscape and portrait modes at different resolutions. The book then covers the best ways to monetize your games using Unity Ads and in-app purchases before you learn how to integrate your game with various social networks. Next, using Unity's analytics tools, you'll enhance your game by gaining insights into how players like and use your game. Finally, you'll take your games into the real world by implementing AR capabilities and publishing them on both Android and iOS app stores. By the end of this book, you will have learned Unity tools and techniques and be able to use them to build robust cross-platform mobile games. What you will learn Design responsive user interfaces for your mobile games Detect collisions, receive user input, and create player movements for your mobile games Create interesting gameplay elements using inputs from your mobile device Explore the mobile notification package in Unity game engine to keep

players engaged Create interactive and visually appealing content for Android and iOS devices Monetize your game projects using Unity Ads and in-app purchases Who this book is for If you are a game developer or mobile developer who wants to learn Unity and use it to build mobile games for iOS and Android, then this Unity book is for you. Prior knowledge of C# and Unity will be beneficial but is not mandatory.

Learn Unity for 2D Game Development
Apress

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 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.

[Hands-On Unity 2020 Game](#)

Development Packt Publishing Ltd

Achieve mesmerizing game experiences using the latest Unity 2021 features by following a practical approach to building professional games Key Features Unleash the capabilities of C# scripting to create UIs, graphics, game AI agents and more Explore Unity's latest tools, including Universal Render Pipeline, Shader Graph, UI Toolkit, Visual Scripting, and VFX graph, to enhance graphics and animation Build an AR experience using Unity's AR Foundation Book Description Learning how to use Unity is the quickest way to creating a full game, but that's not all you can do with this simple, yet comprehensive suite of video game development tools – Unity is just as useful for creating AR/VR experiences, complex simulations, real-time realistic rendering, films, and practical games for training and education. Hands-On Unity 2021 Game Development outlines a practical journey to creating your first full game from the ground up, building it step-by-step and applying your knowledge as you progress. Complete with hands-on tutorials and projects, this easy-to-follow guide will teach you how to develop the game using several Unity tools. As you advance, you will learn how to use the Unity engine, create simple scripts using C#, integrate graphics,

sound, and animations, and manipulate physics to create interesting mechanics for your game. You'll be able to apply all the knowledge that you gain to a real-world game. Later chapters will show you how to code a simple AI agent to challenge the user and use profiling tools to ensure that the code runs efficiently. Finally, you'll work with Unity's AR tools to create AR experiences for 3D apps and games. By the end of this Unity book, you will have created a complete game and built a solid foundation in using a wide variety of Unity tools. What you will learn

Explore both C# and Visual Scripting tools to customize various aspects of a game, such as physics, gameplay, and the UI

Program rich shaders and effects using Unity's new Shader Graph and Universal Render Pipeline

Implement postprocessing to improve graphics quality with full-screen effects

Create rich particle systems for your Unity games from scratch using VFX Graph and Shuriken

Add animations to your game using the Animator, Cinemachine, and Timeline

Use the brand new UI Toolkit package to create user interfaces

Implement game AI to control character behavior

Who this book is for

This book is best suited for game developers looking to upgrade their knowledge and those who want to migrate their existing skills to the Unity game engine. Those with prior Unity knowledge will also benefit from the chapters exploring the latest features. While you'll still be able to follow along if you don't have any programming experience, knowing the fundamentals of C# programming will help you get the most out of this book.

Unity 3.x Game Development Essentials Apress

Master game design and digital art principles simultaneously with this all-in-

one guide to creating games in the cutting-edge game engine Unity. Reworked for C# and Unity 2018 & 2019, and bursting with images and tutorials, Penny de Byl's *Holistic Game Development with Unity* will help the reader gain the multidisciplinary skills needed to succeed in the independent game industry. *Holistic Game Development with Unity* includes new coverage on Augmented Reality, Networking, and Virtual Reality such as the Oculus Rift. Supplementary material, including instructional videos, discussion forums and art assets are provided in the companion website located at www.holistic3d.com. Learn to combine the beauty of art and the functionality of programming in de Byl's third edition for Unity game development. Key features:

- Art and programming in Unity, the only one-stop shop for individual developers and small teams looking to tackle both tasks.
- Proven step-by-step tutorials show you how to design and structure an entire game in Unity with art assets.
- Revised to cover the Unity game engine versions 2018 and 2019. New coverage of Nav Meshes, Augmented Reality, Mobile Builds and Mecanim.
- An introduction to essential two- and three-dimensional mathematical and physics concepts.
- A portfolio of royalty free reusable game mechanics.
- Revamped and expanded accompanying website, www.holistic3d.com, features project source code, instructional videos, art assets, author blog, and discussion forums.
- Additional challenge questions and lesson plans are available online for an enhanced learning experience.

[Practical Game Development with Unity and Blender](#) Packt Publishing Ltd

This book teaches beginners and aspiring game developers how to develop 2D games with Unity.

Thousands of commercial games have been built with Unity. The reader will learn the complete process of 2D game development, step by step. The theory behind each step is fully explained. This book contains numerous color illustrations and access to all source code and companion videos. Key Features: Fully detailed game projects from scratch. Beginners can do the steps and create games right away. No coding experience is necessary. Numerous examples take a raw beginner toward professional coding proficiency in C# and Unity. Includes a thorough introduction to Unity 2020, including 2D game development, prefabs, cameras, animation, character controllers, lighting, and sound. Includes a step-by-step introduction to Unity 2019.3. Extensive coverage of GIMP, Audacity, and MuseScore for the creation of 2D graphics, sound effects, and music. All required software is free to use for any purpose including commercial applications and games. Franz Lanzinger is the owner and chief game developer of Lanzinger Studio, an independent game development and music studio in Sunnyvale, California. He started his career in game programming in 1982 at Atari Games, Inc., where he designed and programmed the classic arcade game Crystal Castles. In 1989, he joined Tengen, where he was a programmer and designer for Ms. Pac-Man and Toobin' on the NES. He co-founded Bitmasters, where he designed and coded games including Rampart and Championship Pool for the NES and SNES, and NCAA Final Four Basketball for the SNES and Sega Genesis. In 1996, he founded Actual Entertainment, publisher and developer of the Gubble video game series. He has a B.Sc. in mathematics from the University of Notre Dame and

attended graduate school in mathematics at the University of California at Berkeley. He is a former world record holder on Centipede and Burgertime. He is a professional author, game developer, accompanist, and piano teacher. He is currently working on remaking the original Gubble game in Unity and Blender.

[Unity Android Game Development by Example Beginner's Guide](#) Sams Publishing

The art of programming mechanics -- Real world mechanics -- Animation mechanics -- Game rules and mechanics -- Character mechanics -- Player mechanics -- Environmental mechanics -- Mechanics for external forces.

Holistic Mobile Game Development with Unity Packt Pub Limited

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 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 latest features. Prior experience with C#

programming is required to get the most out of the book.

Unity Game Development Essentials CRC Press

Master everything you need to build a 2D game using Unity 5 by developing a complete RPG game framework! About This Book Explore the new features of Unity 5 and recognize obsolete code and elements. Develop and build a complete 2D retro RPG with a conversation system, inventory, random map battles, full game menus, and sound. This book demonstrates how to use the new Unity UI system effectively through detailed C# scripts with full explanations. Who This Book Is For This book is for anyone looking to get started developing 2D games with Unity 5. If you're already accomplished in Unity 2D and wish to expand or supplement your current Unity knowledge, or are working in 2D in Unity 4 and looking to upgrade Unity 5, this book is for you. A basic understanding of programming logic is needed to begin learning with this book, but intermediate and advanced programming topic are explained thoroughly so that coders of any level can follow along. Previous programming experience in C# is not required. What You Will Learn Create a 2D game in Unity 5 by developing a complete retro 2D RPG framework. Effectively manipulate and utilize 2D sprites. Create 2D sprite animations and trigger them effectively with code. Write beginning to advanced-level C# code using MonoDevelop. Implement the new UI system effectively and beautifully. Use state machines to trigger events within your game. In Detail The Unity engine has revolutionized the gaming industry, by making it easier than ever for indie game developers to create quality games on a budget. Hobbyists and

students can use this powerful engine to build 2D and 3D games, to play, distribute, and even sell for free! This book will help you master the 2D features available in Unity 5, by walking you through the development of a 2D RPG framework. With fully explained and detailed C# scripts, this book will show you how to create and program animations, a NPC conversation system, an inventory system, random RPG map battles, and full game menus. After your core game is complete, you'll learn how to add finishing touches like sound and music, monetization strategies, and splash screens. You'll then be guided through the process of publishing and sharing your game on multiple platforms. After completing this book, you will have the necessary knowledge to develop, build, and deploy 2D games of any genre! Style and approach This book takes a step-by-step practical tutorial style approach. The steps are accompanied by examples, and all the intermediate steps will be clearly explained. The focus of this book will obviously be on the advanced topics so that the game looks and performs efficiently.

Unity Game Development Blueprints

Apress

If you have C# knowledge but now want to become truly confident in creating fully functional 2D RPG games with Unity, then this book will show you everything you need to know.

Game Development Patterns with Unity 2021

Packt Publishing Ltd
In just 24 hours, readers will learn how to get started developing games with Unity. The approach is hands-on and modular. Each chapter covers an essential component of the game development process. Topics are illustrated with sample projects. The

book also concludes with a complete game project. 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.

Unity in Action

Packt Publishing Ltd
Create enthralling Android games with Unity Faster Than Ever Before About This

Book Develop complex Android games with the help of Unity's advanced features such as artificial intelligence, high-end physics, and GUI transformations. Create amazing

Graphical User Interfaces (GUIs) with Unity's new uGUI system Unravel and deploy exciting games across Android devices Who This Book Is For If you are a

Unity 5 developer and want to expand your knowledge of Unity 5 to create high-end complex Android games, then

this book is for you. Readers are expected to have a basic understanding of Unity 5, working with its environment, and its basic concepts. What You Will

Learn Develop your own Jetpack Joyride clone game Explore the advanced features of Unity 5 by building your own

Action Fighting game Develop remarkable Graphical User Interfaces (GUIs) with Unity's new uGUI system Enhance your game by adding stunning

particle systems and complex animations Build pleasing virtual worlds with special effects, lights, sky cube maps, and cameras Make your game

more realistic by providing music and sound effects Debug and deploy your games on different Android devices In Detail Game engines such as Unity are

the power-tools behind the games we know and love. Unity is one of the most

widely-used and best loved packages for game development and is used by everyone, from hobbyists to large studios, to create games and interactive experiences for the Web, desktop, mobile, and console. With Unity's intuitive, easy-to-learn toolset and this book, it's never been easier to become a game developer. You will begin with the basic concepts of Android game development, a brief history of Android games, the building blocks of Android games in Unity 5, and the basic flow of games. You will configure an empty project for the Jetpack Joyride Clone Game, add an environment and characters, and control them. Next you will walk through topics such as particle systems, camera management, prefabs, animations, triggers, colliders, and basic GUI systems. You will then cover the basic setup for 3D action fighting games, importing models, textures and controlling them with a virtual on-screen joystick. Later you will set up Scene for 3D Configuration, create basic gameplays, and manage input controls. Next you will learn to create the interface for the main menu, gameplay, game over, achievements, and high score screens. Finally you will polish your game with stats, sounds, and Social Networking, followed by testing the game on Android devices and then publishing it on Google Play, Amazon, and OUYA Stores. Style and approach A step-by-step and detailed guide to developing high-end complex Android games utilizing the advanced concepts of Unity.

Unity 2020 Mobile Game Development
Packt Publishing Ltd

In the form of a critical anthology, this book interlaces an ensemble of seminal articles by leading figures in the theory and practice of digital design with a

series of original theoretical texts. It develops a meta-theory of the emerging interactions of media technologies and design in architecture. This theory is promoted as a foundation of transformations in design methods as well as a basis for the evolution of new forms of design thinking. The development of an explication of emerging concepts in the form of a new taxonomy is an important contribution in any form of discourse analysis. Theories of the Digital in Architecture attempts to develop such a conceptual orientation for the growing impact of the integration of digital media technologies in design. It locates these conceptual structures within a historical perspective that identifies the coming into being of a new epistemology of the digital in architecture.

[Learn Unity for Windows 10 Game Development](#) Apress

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.

[Unity Game Development Scripting](#)
O'Reilly Media

Build fully functional, professional 3D games with realistic environments, sound, dynamic effects, and more!

Holistic Game Development with Unity 3e Apress

Create a game for the Windows Phone market with a heavy emphasis placed on optimization and good design decisions. While doing so, you will be introduced to key Unity concepts and functionality, weigh the pros and cons of various possibilities, and gain a good working knowledge of scripting in the Unity environment using both JavaScript and C#. Learn Unity for Windows 10 Game Development starts by exploring the Unity editor and experimenting with staple game functionality. If you are new to scripting or just new to C#, you will be able to investigate syntax, commonly used functions, and communication required to bring your ideas to life. With the book's included art assets, you will learn the ins and outs of asset choices and management while making use of Unity's 2D physics, Shuriken particle systems and Mecanim's character and state management tools. Finally, you will bring it all together to create a multi-level game as you learn how to incorporate mobile specific functionality, test on a Windows Phone device, and others for Windows 10 and ultimately, publish your game to the Windows App Store. What You Will Learn Learn C# basics for Unity Work with the Unity Editor Manage assets Use the Mecanim animation system and 2D features and physics Who This Book Is For Game developers, hobbyists and game dev students who are new to Unity or Windows Mobile game development or both. JavaScript and C# experience are helpful, but C# experience is not required.

Mastering Unity 2D Game

Development Apress

If you are new to Unity scripting and want to learn simple and modular code and advance your knowledge to the next level, this is the book for you.

Mastering Unity 2D Game Development Focal Press

Solve your programming woes in Unity with practical design propositions
 Key Features
 Gain a comprehensive overview of Unity engine architecture and coding model
 Build a complete racing game using software design patterns and understand how to implement them in Unity
 Download the source code of the complete prototype demonstrating each of the software patterns used
 Book Description
 This book is written for every game developer ready to tackle the bigger picture and start working with advanced programming techniques and design patterns in Unity. Game Development Patterns with Unity 2021 is an introduction to the core principles of reusable software patterns and how to employ them to build components efficiently. In this second edition, you'll tackle design patterns with the help of a practical example; a playable racing game prototype where you'll get to apply all your newfound knowledge. Notable updates also include a game design document (GDD), a Unity programming primer, and the downloadable source code of a complete prototype. Your journey will start by learning about overall design of the core game mechanics and systems. You'll discover tried-and-tested software patterns to code essential components of a game in a structured manner, and start using classic design patterns to utilize Unity's unique API features. As you progress, you'll also identify the negative impacts of bad architectural decisions and understand how to

overcome them with simple but effective practices. By the end of this Unity book, the way you develop Unity games will change – you'll adapt a more structured, scalable, and optimized process that will help you take the next step in your career. What you will learn

Structure professional Unity code using industry-standard development patterns

Identify the right patterns for implementing specific game mechanics or features

Develop configurable core game mechanics and ingredients that can be modified without writing a single line of code

Review practical object-oriented programming (OOP) techniques and learn how they're used in the context of a Unity project

Build unique game development systems such as a level editor

Explore ways to adapt traditional design patterns for use with the Unity API

Who this book is for This book is for Unity game developers who want to learn industry standards for building Unity games. Knowledge of the Unity game engine and programming in the

C# language is a must, so if you're a beginner, try our Learning C# by Developing Games with Unity 2021 handbook instead.

2D Game Development with Unity Packt Publishing Ltd

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.