



Community Experience Distilled

Unity 5.x Game Development Blueprints

A project-based guide to help you create amazing games with Unity 5.x

John P. Doran

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Unity Game Development Blueprints Doran John P

Alan Thorn,John P. Doran,Alan Zucconi

Unity Game Development Blueprints Doran John P:

Unity Game Development Blueprints John P. Doran, 2014-11-11 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

Unity 5. X Game Development Blueprints John P. Doran, 2016-05-25 A project based guide to help you create amazing games with Unity 5 xAbout This Book Unleash the power of C coding in Unity and the state of the art Unity rendering engine Through this unique project based approach you will create 7 8 action packed games from scratch This assortment of games will take you on a fun filled journey of becoming a full fledged Unity game developer Who This Book Is ForThis book is best suited for C developers who have some basic knowledge of the Unity Game development platform If you are looking to create exciting and interactive games with Unity and get a practical understanding of how to leverage key Unity features and then optimize the Unity rendering engine then this book is your one stop solution What You Will Learn Find out how to create exciting and interactive games using GUIs Prepare animations to be imported and exported Personalize your animation game with Unity s advanced animation system Work with different animation assets and components Customize the game by modifying the player properties and creating exterior environments Create visualize and edit animated creatures Familiarize yourself with best practices for Unity 5 x animation using iTween Design character actions and expressions Customize your game and prepare it for playinIn DetailThis book will help you to create exciting and interactive games from scratch with the Unity game development platform We will build 7 8 action packed games of different difficulty levels and we ll show you how to leverage the intuitive workflow tools and state of the art Unity rendering engine to build and deploy mobile desktop as well as console games Through this book you ll develop a complete skillset with the Unity toolset Using the powerful C language we ll create game specific characters and game environments Each project will focus on key Unity features as well as game strategy development This book is the ideal guide to help your transition from an application developer to a full fledged Unity game developerStyle and approach A step by step approach to develop a strong Unity skillset by creating a few action packed games from scratch

[Building an FPS Game with Unity](#) John P. Doran, 2015-10-30 Create a high quality first person shooter game using the Unity game engine and the popular UFPS and Probuilder frameworks About This Book Learn how to use Unity in conjunction with UFPS and ProBuilder to create a high quality game quickly Create both interior and exterior environments A step by step guide to building a project with clear examples and instructions to create a number of interesting scenarios Who This Book Is For This book is for those who want to create an FPS game in Unity and gain knowledge on how to customize it to be their very own If you are familiar with the basics of Unity you will have an easier time but it should make it possible for someone with no prior experience to learn Unity at an accelerated pace What You Will Learn Use UFPS to build custom weapons with custom meshes and behaviors Explore level design as you prototype levels making use of Prototype to build levels out quickly Build environments that are realistic as possible while keeping peak

performance and repetitiveness down Review tips and tricks on how to create environments using both terrain for outdoor areas and a modular workflow for interiors Develop a number of different encounters that your players can fight against from a simple turret enemy to complex AI characters from Shooter AI Discover how to create unique objects such as exploding barrels and objects you can interact with Create a custom GUI to help your game stand out from the crowd Package your game for release create an installer and get your game out into the world In Detail Unity available in free and pro versions is one of the most popular third party game engines available It is a cross platform game engine making it easy to write your game once and then port it to PC consoles and even the web making it a great choice for both indie and AAA developers Building an FPS Game in Unity takes readers on an exploration of how to use Unity to create a 3D first person shooter FPS title leveraging the powerful UFPS framework by VisionPunk and Prototype ProBuilder 2.0 by ProCore3D After some setting up you will start by learning how to create custom weapons prototype levels create exterior and interior environments and breathe life into our levels We will then add polish to the levels Finally we will create a custom GUI and menus for our title to create a complete package Style and approach An easy to follow guide with each project containing step by step explanations diagrams screenshots and downloadable material Concepts in Unity and C are explained as they are used and for the more inquisitive there are more details on the concepts used with additional external resources to learn from [Game](#)

Development Patterns and Best Practices John P. Doran, Matt Casanova, 2017-04-27 Utilize proven solutions to solve common problems in game development About This Book Untangle your game development workflow make cleaner code and create structurally solid games Implement key programming patterns that will enable you to make efficient AI and remove duplication Optimize your game using memory management techniques Who This Book Is For If you are a game developer who wants to solve commonly encountered issues or have some way to communicate to other developers in a standardized format then this book is for you Knowledge of basic game programming principles and C programming is assumed What You Will Learn Learn what design patterns are and why you would want to use them Reduce the maintenance burden with well tested cleaner code Employ the singleton pattern effectively to reduce your compiler workload Use the factory pattern to help you create different objects with the same creation logic and reduce coding time Improve game performance with Object Pools Allow game play to interact with physics or graphics in an abstract way Refactor your code to remove common code smells In Detail You've learned how to program and you've probably created some simple games at some point but now you want to build larger projects and find out how to resolve your problems So instead of a coder you might now want to think like a game developer or software engineer To organize your code well you need certain tools to do so and that's what this book is all about You will learn techniques to code quickly and correctly while ensuring your code is modular and easily understandable To begin we will start with the core game programming patterns but not the usual way We will take the use case strategy with this book We will take an AAA standard game and show you the hurdles at multiple stages of development

Similarly various use cases are used to showcase other patterns such as the adapter pattern prototype pattern flyweight pattern and observer pattern Lastly we ll go over some tips and tricks on how to refactor your code to remove common code smells and make it easier for others to work with you By the end of the book you will be proficient in using the most popular and frequently used patterns with the best practices Style and approach This book takes a step by step real life case studies approach Every pattern is first explained using a bottleneck We will show you a problem in your everyday workflow and then introduce you to the pattern and show you how the pattern will resolve the situation [Extending Unity with Editor Scripting](#) Angelo Tadres, 2015-09-21 Put Unity to use for your video games by creating your own custom tools with editor scripting About This Book Acquire a good understanding of extending Unity s editor capabilities for a platformer game by using Gizmos custom inspectors editor windows scriptable objects and more Learn to configure and get control over your asset import pipeline using asset preprocessors A step by step comprehensible guide to creating and customizing a build pipeline that fits the necessities of your video game development team Who This Book Is For This book is for anyone who has a basic knowledge of Unity programming using C and wants to learn how to extend and create custom tools using Unity editor scripting to improve the development workflow and make video game development easier What You Will Learn Use Gizmos to create visual aids for debugging Extend the editor capabilities using custom inspectors property and decorator drawers editor windows and handles Save your video game data in a persistent way using scriptable objects Improve the look and feel of your custom tools using GUIStyles and GUIKinds Configure and control the asset import pipeline Improve the build creation pipeline Distribute the custom tools in your team or publish them in the Asset Store In Detail One of Unity s most powerful features is the extensible editor it has With editor scripting it is possible to extend or create functionalities to make video game development easier For a Unity developer this is an important topic to know and understand because adapting Unity editor scripting to video games saves a great deal of time and resources This book is designed to cover all the basic concepts of Unity editor scripting using a functional platformer video game that requires workflow improvement You will commence with the basics of editor scripting exploring its implementation with the help of an example project a level editor before moving on to the usage of visual cues for debugging with Gizmos in the scene view Next you will learn how to create custom inspectors and editor windows and implement custom GUI Furthermore you will discover how to change the look and feel of the editor using editor GUIStyles and editor GUIKinds You will then explore the usage of editor scripting in order to improve the development pipeline of a video game in Unity by designing ad hoc editor tools customizing the way the editor imports assets and getting control over the build creation process Step by step you will use and learn all the key concepts while creating and developing a pipeline for a simple platform video game As a bonus the final chapter will help you to understand how to share content in the Asset Store that shows the creation of custom tools as a possible new business By the end of the book you will easily be able to extend all the concepts to other projects Style and approach This book uses a

step by step approach that will help you finish with a level editor tool a custom configuration for the asset import pipeline and a build pipeline totally adjusted to the video game **Unreal Engine Game Development Cookbook** John P. Doran,2015-10-30 Over 40 recipes to accelerate the process of learning game design and solving development problems using Unreal Engine About This Book Explore the quickest way to tackle common challenges faced in Unreal Engine Create your own content levels light scenes and materials and work with Blueprints and C scripting An intermediate fast paced Unreal Engine guide with targeted recipes to design games within its framework Who This Book Is For This book is for those who are relatively experienced with Unreal Engine 4 and have knowledge of its fundamentals Working knowledge of C is required What You Will Learn Discover editor functionalities for an in depth insight into game design Develop environments using terrain for outdoor areas and a workflow for interiors as well using brushes Design various kinds of materials with unique features such as mirrors and glows Explore the various ways that lighting can be used in the engine Build various level effects using Blueprints Unreal's visual scripting system Set up a development environment and develop custom functionality with C for your games Create healthbars and main menus with animations using Slate Unreal's UI solution through the UMG Editor Package and create an installer to get your project out into the world In Detail Unreal Engine is a powerful tool with rich functionalities to create games It equips you with the skills to easily build mobile and desktop games from scratch without worrying about which platform they will run on You can focus on the individual complexities of game development such as animation and rendering This book takes you on a journey to jumpstart your game design efforts You will learn various aspects of the Unreal engine commonly encountered with practical examples of how it can be used with numerous references for further study You will start by getting acquainted with Unreal Engine 4 and building out levels for your game This will be followed by recipes to help you create environments place meshes and implement your characters You will then learn to work with lights camera and shadows to include special effects in your game Moving on you'll learn Blueprint scripting and C programming to enable you to achieve trigger effects and add simple functionalities By the end of the book you will see how to create a healthbar and main menu and then get your game ready to be deployed and published Style and approach This book offers detailed easy to follow recipes that will help you master a wide range of Unreal Engine 4's features Every recipe provides step by step instructions with explanations of how these features work and alternative approaches and research materials so you can learn even more [Learning LibGDX Game Development - Second Edition](#) Suryakumar Balakrishnan Nair,Andreas Oehlke,2015-01-28 This book is aimed at indie and existing game developers as well as those who want to get started with game development using LibGDX Basic knowledge of Java programming and game development is required **Mastering Unity Scripting** Alan Thorn,2015-01-29 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 **Unreal Engine Game Development Cookbook** John P. Doran,2015 Over 40 recipes to accelerate the process of learning game design and solving development problems using Unreal Engine About This Book Explore the quickest way to tackle common challenges faced in Unreal Engine Create your own content levels light scenes and materials and work with Blueprints and C scripting An intermediate fast paced Unreal Engine guide with targeted recipes to design games within its framework Who This Book Is For This book is for those who are relatively experienced with Unreal Engine 4 and have knowledge of its fundamentals Working knowledge of C is required What You Will Learn Discover editor functionalities for an in depth insight into game design Develop environments using terrain for outdoor areas and a workflow for interiors as well using brushes Design various kinds of materials with unique features such as mirrors and glows Explore the various ways that lighting can be used in the engine Build various level effects using Blueprints Unreal s visual scripting system Set up a development environment and develop custom functionality with C for your games Create healthbars and main menus with animations using Slate Unreal s UI solution through the UMG Editor Package and create an installer to get your project out into the world In Detail Unreal Engine is powerful tool with rich functionalities to create games It equips you with the skills to easily build mobile and desktop games from scratch without worrying about which platform they will run on You can focus on the individual complexities of game development such as animation and rendering This book takes you on a journey to jumpstart your game design efforts You will learn various aspects of the Unreal engine commonly encountered with practical examples of how it can be used with numerous references for further study You will start by getting acquainted with Unreal Engine 4 and building out levels for your game This will be followed by recipes to help you create environments place meshes and implement your characters You will then learn to work with lights camera and shadows to include special effects in your game Moving on you ll learn Blueprint scripting and C programming to enable you to achieve trigger effects and add simple functionalities By the end of the book you will see how to create a healthbar and main menu and then get your game ready to be deployed and published Style and approach This book offers detailed easy to follow recipes that will help you master a wide range of Unreal Engine 4 s features Every recipe provides step by step instructions with explanations of how these features work and alternative approaches and research materials so you can learn even more **Unity 5** Chris Dickinson, Greg Lukosek, John P. Doran,2017-07-14 Explore every nook and cranny of Unity 5 to turn your imaginations into reality About This Book Demystify the C programming language in Unity 5 x Unleash the power of Unity to create a wide variety of projects in numerous genres and formats Master the art of optimization for Unity 5 x applications with tips and techniques that will further enhance your game Who This Book Is For Beginner level Unity developers who do not have much programming experience What You Will Learn Master the art of applying C in Unity Get to know about techniques to turn your game idea into working project Use loops and collections efficiently in Unity to reduce the amount of code Create and code a good looking functional UI system for your game Find out

how to create exciting and interactive games using GUIs Work with different animation assets and components to enhance your game further Personalize your game by learning how to use Unity's advanced animation system Create, visualize and edit animated creatures to add to your already amazing game Familiarize yourself with the tools and practices of game development Discover how to create the Game Manager class to generate game levels and develop UI for the game Use the Unity Profiler to find bottlenecks anywhere in your application and discover how to resolve them Implement best practices for C scripting to avoid common mistakes In Detail Unity is a cross platform game engine that is used to develop 2D and 3D video games Unity 5 is the latest version and adds a real time global illumination to the games and its powerful new features help to improve a game's efficiency If you love games and want to learn how to make them but have no idea where to begin then this course is built just for you This learning path is divided into three modules which will take you on this incredible journey of creating games The course begins with getting you started with programming behaviors in C so that you can create 2D games in Unity You will begin by installing Unity and learning about its features You will learn how to perform object oriented programming and discover how to manage the game play loop generate game levels and develop a simple UI for the game By the time this module comes to a close you will have mastered the art of applying C in Unity It is now time we put into use what we learned in the previous module into reality as we move onto the second module Here we will be building 7-8 action packed games of different difficulty levels Each project will focus on key Unity features as well as game strategy development This module will mark your transformation from an application developer to a full fledged Unity game developer Who wouldn't love a game that is fully perfect functional and without any glitches The third module deals with just that by teaching how to enhance your game by learning game optimization skills Here you'll gain an understanding of possible solutions to any problem and how to implement them You will then learn everything you need to know about where performance bottlenecks can be found why they happen and how to work around them With this massive wealth of knowledge at the end of this learning path you will be able to leverage an array of game development techniques to create your own basic games while resolving any issues that you encounter Style and approach This learning path should be treated as the complete package necessary for building games It is a step by step guide to develop a game from scratch by applying the fundamentals of C and Unity scripting with a reference guide in the end to solve all your gaming problems

Unreal Engine: Game Development from A to Z Joanna Lee, John P. Doran, Nitish Misra, 2016-08-31 Develop fantastic games and solve common development problems with Unreal Engine 4 About This Book Investigate the big world of Unreal Engine computer graphics rendering and Material editor to implement in your games Construct a top notch game by using the assets offered by Unreal Engine thereby reducing the time to download create assets on your own Understand when and why to use different features and functionalities of Unreal Engine 4 to create your own games Learn to use Unreal 4 by making a first person puzzle game Blockmania for Android Who This Book Is For This path is ideal for those who have a strong interest in

game development and some development experience An intermediate understanding of C is recommended What You Will Learn Explore the Unreal Engine 4 editor controls and learn how to use the editor to create a room in a game level Get clued up about working with Slate Unreal s UI solution through the UMG Editor Put together your own content and materials to build cutscenes and learn how to light scenes effectively Get tips and tricks on how to create environments using terrain for outdoor areas and a workflow for interiors as well using brushes Explore the ways to package your game for Android Devices and porting it to the Google Playstore Know inside out about creating materials and applying them to assets for better performance Understand the differences between BSP and static meshes to make objects interactive In Detail Unreal Engine technology powers hundreds of games This Learning Path will help you create great 2D and 3D games that are distributed across multiple platforms The first module Learning Unreal Engine Game Development starts with small simple game ideas and playable projects It starts by showing you the basics in the context of an individual game level Then you ll learn how to add details such as actors animation effects and so on to the game This module aims to equip you with the confidence and skills to design and build your own games using Unreal Engine 4 By the end of this module you will be able to put into practise your own content After getting familiar with Unreal Engine s core concepts it s time that you dive into the field of game development In this second module Unreal Engine Game Development Cookbook we show you how to solve development problems using Unreal Engine which you can work through as you build your own unique project Every recipe provides step by step instructions with explanations of how these features work and alternative approaches and research materials so you can learn even more You will start by building out levels for your game followed by recipes to help you create environments place meshes and implement your characters By the end of this module you will see how to create a health bar and main menu and then get your game ready to be deployed and published The final step is to create your very own game that will keep mobile users hooked This is what you ll be learning in our third module Learning Unreal Engine Android Game Development Once you get the hang of things you will start developing our game wherein you will graduate from movement and character control to AI and spawning Once you ve created your application you will learn how to port and publish your game to the Google Play Store With this course you will be inspired to come up with your own great ideas for your future game development projects Style and approach A practical collection of bestselling Packt titles this Learning Path aims to help you skill up with Unreal Engine by curating some of our best titles into an essential sequential collection

[Unity 2022 Mobile Game Development](#) John P. Doran,2023-06-30 Get started with mobile game development with this practical illustrated guide on how to use Unity 2022 and C to build cross platform mobile games and add augmented reality features to your projects Key Features Create deploy and monetize immersive mobile games on Android and iOS with Unity 2022 Integrate augmented reality in your mobile projects to add real world elements to your games Explore step by step instructions and a demo game project to kickstart your game development journey Book DescriptionUnity is a well

established player in the mobile game development sphere and its new release Unity 2022 is packed with new exciting features In Unity 2022 Mobile Game Development Third Edition you ll get to grips with the Unity game engine by building a mobile game and publishing it on the most popular mobile app stores as well as exploring the all new features This book provides a comprehensive and practical approach to mobile game development helping you build an endless runner game Starting with setting up a simple Unity project for mobile development you ll delve into various essential aspects needed to successfully create and publish your game You ll acquire a range of skills such as incorporating touch gestures monetizing your game with Unity Ads and in app purchases designing an intuitive UI and seamlessly integrating social media functionalities Additionally you ll gain valuable insights into player preferences and behavior using Unity s analytics tools You ll also explore features of augmented reality in Unity 2022 enhancing your game s appeal By the end of this book you ll be well equipped to reap the power of Unity 2022 to build optimize and publish robust cross platform mobile games with C as well as widening your skill set and enhancing your credentials as a game developer What you will learn Design responsive UIs for your mobile games Detect collisions receive user input and create player movements Create interesting gameplay elements using mobile device input Add custom icons and presentation options Keep players engaged by using Unity s mobile notification package Integrate social media into your projects Add augmented reality features to your game for real world appeal Make your games juicy with post processing and particle effects Who this book is for If you are a game developer or mobile developer looking to learn Unity and employ it to build mobile games for iOS and Android then this Unity book is for you Prior knowledge of C and Unity will be beneficial but isn t mandatory [Unity 2020 Mobile Game Development](#) John P. Doran,2020-08-21 A practical guide on how to use Unity for building cross platform mobile games and Augmented Reality apps using the latest Unity 2020 toolset Key FeaturesCreate deploy and monetize captivating and immersive games on Android and iOS platformsTake your games into the real world by adding augmented reality features to your mobile projectsKick start your mobile game development journey with step by step instructions and a demo game projectBook Description Unity 2020 brings a lot of new features that can be harnessed for building powerful games for popular mobile platforms This updated second edition delves into Unity development covering the new features of Unity modern development practices and augmented reality AR for creating an immersive mobile experience The book takes a step by step approach to building an endless runner game using Unity to help you learn the concepts of mobile game development This new edition also covers AR features and explains how to implement them using ARCore and ARKit with Unity The book explores the new mobile notification package and helps you add notifications for your games You ll learn how to add touch gestures and design UI elements that can be used in both landscape and portrait modes at different resolutions The book then covers the best ways to monetize your games using Unity Ads and in app purchases before you learn how to integrate your game with various social networks Next using Unity s analytics tools you ll enhance your game by gaining insights into

how players like and use your game Finally you ll take your games into the real world by implementing AR capabilities and publishing them on both Android and iOS app stores By the end of this book you will have learned Unity tools and techniques and be able to use them to build robust cross platform mobile games What you will learnDesign responsive user interfaces for your mobile gamesDetect collisions receive user input and create player movements for your mobile gamesCreate interesting gameplay elements using inputs from your mobile deviceExplore the mobile notification package in Unity game engine to keep players engagedCreate interactive and visually appealing content for Android and iOS devicesMonetize your game projects using Unity Ads and in app purchasesWho this book is for If you are a game developer or mobile developer who wants to learn Unity and use it to build mobile games for iOS and Android then this Unity book is for you Prior knowledge of C and Unity will be beneficial but is not mandatory

Unity 2017 Mobile Game Development John P. Doran,2017-11-30 Learn to create publish and monetize your mobile games with the latest Unity 2017 tool set easily for Android and iOS About This Book One stop solution to becoming proficient in mobile game development using Unity 2017 Port your Unity games to popular platforms such as iOS and Android Unleash the power of C scripting to create realistic gameplay and animations in Unity 2017 Who This Book Is For If you are a game developer and want to build mobile games for iOS and Android then this is the book for you Previous knowledge of C and Unity is helpful but not required What You Will Learn Use Unity to build an endless runner game Set up and deploy a project to a mobile device Create interesting gameplay elements using inputs from your mobile device Monetize your game projects with Unity ads and in app purchases Design UI elements that can be used well in Landscape and Portrait mode at different resolutions supporting phones tablets and PCs How to submit your game to the iOS and Android app stores In Detail Unity has established itself as an overpowering force for developing mobile games If you love mobile games and want to learn how to make them but have no idea where to begin then this book is just what you need This book takes a clear step by step approach to building an endless runner game using Unity with plenty of examples on how to create a game that is uniquely your own Starting from scratch you will build set up and deploy a simple game to a mobile device You will learn to add touch gestures and design UI elements that can be used in both landscape and portrait mode at different resolutions You will explore the best ways to monetize your game projects using Unity Ads and in app purchases before you share your game information on social networks Next using Unity s analytics tools you will be able to make your game better by gaining insights into how players like and use your game Finally you ll learn how to publish your game on the iOS and Android App Stores for the world to see and play along Style and approach This book takes a clear step by step approach for Unity game developers to explore everything needed to develop mobile games with Unity

Unity 6 Shaders and Effects Cookbook John P. Doran,2025-07-28 Overcome challenges head on in Unity 6 shader creation with the help of expert tips practical solutions and cutting edge techniques from best selling author John Doran Key Features Explore Shader Graph to develop expertise in post processing and advanced shading Unlock

shortcuts to achieve AAA shader quality without complex algorithms Become proficient in Unity's latest tools including VFX Graph and Unity Muse Purchase of the print or Kindle book includes a free PDF eBook Book Description Shaders enable game developers to craft visually stunning experiences but their complexity and mathematical and technical challenges make it hard to achieve the desired level of realism Written by a top selling author with extensive hands on expertise in game development this latest edition is your indispensable guide to mastering the art of shaders within this evolving landscape Through meticulously curated recipes this book takes a practical approach to equip you with the knowledge and tools necessary to elevate your game visuals to unmatched sophistication In this updated edition you'll gain invaluable insights into leveraging Unity's latest tools including Unity Muse for advanced AI powered texture creation From fully grasping Shader Graph to harnessing the power of vectors and textures this Unity cookbook covers all the aspects of shader development without the need for elaborate mathematical calculations You'll also discover practical techniques for achieving stunning visual effects with ease when creating 2D or 3D elements What you will learn Understand the principles of shaders along with how to work in Shader Graph Harness URP and HDRP packages for efficient shader creation Enhance game visuals with modern shader techniques Optimize shaders for performance and aesthetics Master the math and algorithms behind the commonly used lighting models Transform your game's atmosphere with the Post Processing Stack Develop sophisticated shader effects by leveraging fragment shaders and grab pass techniques Who this book is for This book is for game developers looking to elevate their shader expertise and enhance game visuals using Unity 6 Game programmers technical artists and aspiring game developers eager to master shader creation with Shader Graph will find this book very useful A solid understanding of Unity is required to get the most out of this book [The United States Catalog](#)

Mary Burnham, Carol Hurd, 1928 **Unity 2021 Shaders and Effects Cookbook** John P. Doran, 2021-10-15 Overcome the challenges and complexities involved in creating your own shaders with high level realism using practical solutions best practices and the latest features of Unity 2021 Key Features Discover practical recipes for mastering post processing effects and advanced shading techniques Learn the secrets of creating AAA quality shaders without writing long algorithms Create visually stunning effects for your games using Unity's VFX Graph Book Description Shaders enable you to create powerful visuals for your game projects However creating shaders for your games can be notoriously challenging with various factors such as complex mathematics standing in the way of attaining the level of realism you crave for your shaders The Unity 2021 Shaders and Effects Cookbook helps you overcome that with a recipe based approach to creating shaders using Unity This fourth edition is updated and enhanced using Unity 2021 features and tools covering Unity's new way of creating particle effects with the VFX Graph You'll learn how to use VFX Graph for advanced shader development The book also features updated recipes for using Shader Graph to create 2D and 3D elements You'll cover everything you need to know about vectors how they can be used to construct lighting and how to use textures to create complex effects without the heavy math

You'll also understand how to use the visual based Shader Graph for creating shaders without any code. By the end of this Unity book, you'll have developed a set of shaders that you can use in your Unity 3D games and be able to accomplish new effects and address the performance needs of your Unity game development projects. So let's get started. What you will learn:

- Use physically based rendering to fit the aesthetic of your game.
- Create spectacular effects for your games by testing the limits of what shaders can do.
- Explore advanced shader techniques for your games with AAA quality.
- Use Shader Graph to create 2D and 3D elements for your games without writing code.
- Master the math and algorithms behind the commonly used lighting models.
- Get to grips with the Post Processing Stack to tweak the appearance of your game.

Who this book is for:

This book is for game developers who want to start creating their first shaders in Unity 2021 and take their game to a whole new level by adding professional post processing effects. The book assumes intermediate level knowledge of Unity.

[Complete Unity 2018 Game Development](#) Alan Thorn, John P. Doran, Alan Zucconi, 2019-01-31

Leverage the power of the Unity 2018 game engine to create games with brilliant gameplay and high replayability. Key Features:

- Develop different types of games from scratch with Unity 2018.
- Discover the secrets of creating AAA quality shaders without writing long algorithms.
- Script intelligent game characters and agents using Artificial Intelligence techniques and algorithms.

Book Description: Through this Learning Path, you'll learn how to leverage the features of Unity and create amazing games ranging from action shooters and mind-bending puzzle games to adventure and Virtual Reality VR games. If you have no prior experience of using Unity, you can still benefit from this Learning Path, which easily explains the complete working of the Unity toolset. You'll start by learning how to create compelling shaders using Unity and understanding everything you need to know about vectors. This includes useful inputs on how lighting is constructed with vectors and how textures are used to create complex effects without the need for advanced math. In the succeeding chapters, you'll also be able to use popular AI techniques such as A* and A*mbush to develop intelligent pathfinding agents for your games. The book will also guide you through different algorithms for creating decision-making agents that go beyond simple behaviors and movement. By the end of this Learning Path, you will have developed all the basic skills to create highly engaging and replayable games. This Learning Path includes content from the following Packt products:

- Unity 2018 By Example Second Edition** by Alan Thorn
- Unity 2018 Shaders and Effects Cookbook Third Edition** by John P. Doran
- Unity 2018 Artificial Intelligence Cookbook Second Edition** by Jorge Palacios

What you will learn:

- Understand concepts such as game objects, components, and scenes.
- Create functional games with C# scripting.
- Write shaders from scratch in ShaderLab and HLSL/Cg.
- Develop intelligent pathfinding agents with A* and A*mbush.
- Work with terrains and world creation tools.
- Simulate senses for agents to make decisions based on the environment.
- Implement waypoints by creating a manual selector.
- Enhance games with volumetric explosions, special effects, and visuals.

Who this book is for:

If you are a game developer who wants to learn tools that can transform your gameplay, this beginner-level Learning Path is ideal for you. Having basic knowledge of C# will help you grasp the concepts explained in the book easily.

The United States Catalog Mary Burnham, Carol Hurd, 1928

The United States Catalog ,1912

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