Learning Unity 2D Game Development by Example

Create your own line of successful 2D games with Unity!

Venita Pereira

[Learning Unity 2d Game Development By Example Pereira Venita](#)

Chris Dickinson

Learning Unity 2d Game Development By Example Pereira Venita:

 Unity 2D Game Development by Example Beginner's Guide Venita Pereira,2014-08-14 If you are interested in creating your very own 2D games from scratch then this book will give you all the tools you need to succeed Whether you are completely new to Unity or have used Unity before and would like to learn about the new 2D features of Unity this book is for you *Learning Unity iOS Game Development* Kyle Langley,2015-09-29 Build exciting games with Unity on iOS and publish them on the App Store About This Book Take advantage of Unity 5 s new tools to create a fully interactive mobile game Learn how to connect your iTunes developer account and use Unity 5 to communicate with it Use your Macintosh computer to publish your game to the App Store Who This Book Is For This book is for iOS developers who want to learn how to build games with Unity for the iOS platform Some prior experience in game development would be useful What You Will Learn Create your own iTunes Connect Developer account and create an app within it Set up iTunes Game Center features in iTunes Connect so you can use them within Unity 5 Construct a game using C that allows users to interactively control the game character Use Unity 5 s editor window to create a custom editor tool specific for the game made in the book Store and keep track of data so the player is able to collect in game pick ups that can be used to purchase in game goods Use all game features so the player is able to fully navigate menus between the front menu and in the game state Make test and finally release builds so you can play on your device and then submit the game to Apple for review In Detail Over recent years the market for mobile game development using Unity has grown multi fold with an overwhelming 600 million gamers playing games developed using Unity engine The newly launched Unity 5 offers a wide range of dedicated and powerful tools for iOS developers who intend to follow the basics and gradually elevate their skills to revolutionize the way they design and publish games for the App Store From beginners to those who are experienced making video games this book goes through the steps of using Unity 5 to make a game from the ground up and setting the game up with iTunes Game Center features The book begins with an introduction to setting up an iTunes Connect developer account this will allow you to use Unity to its full potential with iOS You will create a new app in iTunes Connect with the settings for Apple approval You will learn in detail how to use Unity 5 and the programming language C to make a fully interactive game that keeps track of player progress Game Center Leaderboards and Achievements as well as displaying iAds and offering In App purchases Moving on you ll discover how to create development and release builds enabling you to test the game on your device before finally submitting the game for Apple s approval By the end of the book you will have a complete understanding of how iTunes and Unity can be used in combination to build and publish a fully interactive and reliable game to the App Store Style and approach This is a step by step guide that covers the fundamentals of gaming and reveals the secrets of building and monetizing games for the iOS platform *Unity Animation Essentials* Alan Thorn,2015-06-24 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 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   **Unity 5 Game Optimization** Chris Dickinson,2015-11-06 Master performance optimization for Unity3D applications with tips and techniques that cover every aspect of the Unity3D Engine About This Book Optimize CPU cycles memory usage and GPU throughput for any Unity3D application Master optimization techniques across all Unity Engine features including Scripting Asset Management Physics Graphics Features and Shaders A practical guide to exploring Unity Engine s many performance enhancing methods Who This Book Is For This book is intended for intermediate and advanced Unity developers who have experience with most of Unity s feature set and who want to maximize the performance of their game Familiarity with the C language will be needed What You Will Learn Use the Unity Profiler to find bottlenecks anywhere in our application and discover how to resolve them Implement best practices for C scripting to avoid common pitfalls Develop a solid understanding of the rendering pipeline and maximize its performance through reducing draw calls and avoiding fill rate bottlenecks Enhance shaders in a way that is accessible to most developers optimizing them through subtle yet effective performance tweaks Keep our scenes as dynamic as possible by making the most of the Physics engine Organize filter and compress our art assets to maximize performance while maintaining high quality Pull back the veil on the Mono Framework and the C Language to implement low level enhancements that maximize memory usage and avoid garbage collection Get to know the best practices for project organization to save time through an improved workflow In Detail Competition within the gaming industry has become significantly fiercer in recent years with the adoption of game development frameworks such as Unity3D Through its massive feature set and ease of use Unity helps put some of the best processing and rendering technology in the hands of hobbyists and professionals alike This has led to an enormous explosion of talent which has made it critical to ensure our games stand out from the crowd through a high level of quality A good user experience is essential to create a solid product that our users will enjoy for many years to come Nothing turns gamers away from a game faster than a poor user experience Input latency slow rendering broken physics stutters freezes and crashes are among a gamer s worst nightmares and it s up to us as game developers to ensure this never happens High performance does not need to be limited to games with the biggest teams and budgets Initially you will explore the major features of the Unity3D Engine from top to bottom investigating a multitude of ways we can improve application performance starting with the detection and analysis of bottlenecks You ll then gain an understanding of possible solutions 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 This book gathers a massive wealth of knowledge together in one place saving many hours of research and can be used as a quick reference to solve specific issues that arise during product development Style and approach This book is organized based on the major features of Unity engine and should be treated as a reference guide It is written as a series of investigations into both common and unusual performance pitfalls each including a study on why the bottleneck is causing us problems and a list of enhancements or features that can be used to work around them Differences in effectiveness behaviors or feature sets between Unity 4 x and Unity 5 x will be highlighted   Building a Game with Unity and Blender Lee Zhi Eng,2015-11-27 Learn how to build a complete 3D game using the industry leading Unity game development engine and Blender the graphics software that gives life to your ideas About This Book Learn the fundamentals of two powerful tools and put the concepts into practice Find out how to designand buildall the core elements required for a great game from characters to environments to props Learn how to integrate Artificial Intelligence AI into your game for sophisticated and engaging gameplay Who This Book Is For This book has been created for anyone who wants to learn how to develop their own game using Blender and Unity both of which are freely available yet very popular and powerful tools Not only will you be able to master the tools but you will also learn the entire process of creating a game from the ground up What You Will Learn Design and create a game concept that will determine how your game will look and how it will be played Construct 3D models of your game characters and create animations for them before importing them into the game Build the game environment from scratch by constructing the terrain and props and eventually put it all together to form a scene Import and integrate game assets created in Blender into Unity for example setting up textures materials animation states and prefabs Develop game structures including a game flow user interface diagram game logic and a state machine Make the game characters move around and perform certain actions either through player inputs or fully controlled by artificial intelligence Create particles and visual effects to enhance the overall visual aesthetic Deploy the game for various types of platforms In Detail In the wake of the indie game development scene game development tools are no longer luxury items costing up to millions of dollars but are now affordable by smaller teams or even individual developers Among these cutting edge applications Blender and Unity stand out from the crowd as a powerful combination that allows small to no budget indie developers or hobbyists alike to develop games that they have always dreamt of creating Starting from the beginning this book will cover designing the game concept constructing the gameplay creating the characters and environment implementing game logic and basic artificial intelligence and finally deploying the game for others to play By sequentially working through the steps in each chapter you will quickly master the skills required to develop your dream game from scratch Style and approach A step by step approach with tons of screenshots and sample code for readers to follow and learn from Each topic is explained sequentially and placed in context so that readers can get a better understanding of every step

in the process of creating a fully functional game   **Unity Virtual Reality Projects** Jonathan Linowes,2015-09-01 Explore the world of Virtual Reality by building immersive and fun VR projects using Unity 3D About This Book Learn the basic principles of virtual reality applications and get to know how they differ from games and desktop apps Build various types of VR experiences including diorama first person characters riding on rails 360 degree projections and social VR A project based guide that teaches you to use Unity to develop VR applications which can be experienced with devices such as the Oculus Rift or Google Cardboard Who This Book Is For If you re a non programmer unfamiliar with 3D computer graphics or experienced in both but new to virtual reality and are interested in building your own VR games or applications then this book is for you Any experience in Unity is an advantage What You Will Learn Create 3D scenes with Unity and Blender while learning about world space and scale Build and run VR applications for consumer headsets including Oculus Rift and Google Cardboard Build interactive environments with physics gravity animations and lighting using the Unity engine Experiment with various user interface UI techniques that you can use in your VR applications Implement the first person and third person experiences that use only head motion gestures for input Create animated walkthroughs use 360 degree media and build multi user social VR experiences Learn about the technology and psychology of VR including rendering performance and VR motion sickness Gain introductory and advanced experience in Unity programming with the C language In Detail What is consumer virtual reality Wearing a head mounted display you view stereoscopic 3D scenes You can look around by moving your head and walk around using hand controls or motion sensors You are engaged in a fully immersive experience On the other hand Unity is a powerful game development engine that provides a rich set of features such as visual lighting materials physics audio special effects and animation for creating 2D and 3D games Unity 5 has become the leading platform for building virtual reality games applications and experiences for this new generation of consumer VR devices Using a practical and project based approach this book will educate you about the specifics of virtual reality development in Unity You will learn how to use Unity to develop VR applications which can be experienced with devices such as the Oculus Rift or Google Cardboard We will then learn how to engage with virtual worlds from a third person and first person character point of view Furthermore you will explore the technical considerations especially important and possibly unique to VR The projects in the book will demonstrate how to build a variety of VR experiences You will be diving into the Unity 3D game engine via the interactive Unity Editor as well as C Sharp programming By the end of the book you will be equipped to develop rich interactive virtual reality experiences using Unity So let s get to it Style and approach This book takes a practical project based approach to teach specifics of virtual reality development in Unity Using a reader friendly approach this book will not only provide detailed step by step instructions but also discuss the broader context and applications covered within   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 scriptingAbout 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 GUISkins 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 GUISkins 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

Learning 2D Game Development with Unity Matthew Johnson (Computer programmer),James A. Henley,2014 The Unity Engine Tutorial for Any Game Creator 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 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 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 provided Register your book at 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   *Learn Unity for 2D Game Development* Alan Thorn,2013-10-08 2D games are everywhere from mobile devices and websites to game consoles and PCs Timeless and popular 2D games represent a substantial segment of the games market In Learn Unity for 2D Game Development targeted at both game development newcomers and established developers experienced game developer Alan Thorn shows you how to use the powerful Unity engine to create fun and imaginative 2D games Written in clear and accessible language Learn Unity for 2D Game Development will show you how to set up a step by step 2D workflow in Unity how to build and import textures how to configure and work with cameras how to establish pixel perfect ratios and all of this so you can put that infrastructure to work in a real playable game Then the final chapters show you how to put what you ve already made to work in creating a card matching game plus you ll learn how to optimize your game for mobile devices What you ll learn How to create a 2D workflow in Unity Customizing the Unity Editor How to generate atlas textures and textured quads Animation effects and camera configuration Handling user input Creating a game from start to finish Optimizing for mobile devices Who this book is for Game development students and professionals indie developers game artists and designers and Unity developers looking to improve their workflow and effectiveness Table of Contents1 Unity Basics for 2D Games 2 Materials and Textures 3 Quick 2D Workflow 4 Customizing the Editor with Editor Classes 5 Procedural Geometry and Textured Quads 6 Generating Atlas Textures 7 UVs and Animation 8 Cameras and Pixel Perfection 9 Input for 2D Games 10 Getting Started with a 2D Game 11 Completing the 2D Card Game 12 Optimization 13 Wrapping Things Up   **Getting Started with Unity 5. X 2D Game Development** Francesco Sapio,2017-02-10 Build a tower defense game and earn delectable C treats by baking cupcakes and fighting fearsome sweet toothed pandasAbout 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 levelWho This Book Is ForIf 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 lifeIn DetailWant 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 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 approachThis 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 variety of ways Once you have finished reading this book you will be well on your way to developing games from start to finish   Unity 2d Game Development John Bach,2020-06-27 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 youUnity has become one of the most popular game engines for developers from the amateur hobbyist to the professional working in a large studio Unity used to be considered a 3D tool but with the release of Unity 4 3 it now has dedicated 2D tools This will expand Unity s use even more Developers love its object oriented drag and drop user interface which makes

creating a game or interactive product so easy Despite the visual ease of working in Unity there is a need to understand some basic programming to be able to write scripts for GameObjects For game developers that have any programming knowledge learning how to write scripts is quite easy For the the artist coming to Unity creating the visual aspects of a game is a breeze but writing scripts may appear to be a giant roadblock This book is for those with no concept of programming I introduce the building blocks that is basic concepts of programming using everyday examples you are familiar with Also my approach to teaching is not what you will find in the typical programming book In the end you will learn the basics of C but I will spoon feed you the details as they are needed I will take you through the steps needed to create a simple game with the focus not being the game itself but on how the many separate sections of code come together to make a working game I will also introduce the concept of a State Machine to organize code into simple game controlling blocks At the end you will be saying Wow I can t believe how easy that was **Unity 2D Game Development Cookbook** Claudio Scolastici,2015-02-18 This book is intended for both professionals game developers and hobbist who are interested in making games with Unity Users are expected to have knowledge of basics fundamentals of unity 2D game development and should have a working knowledge of C *Unity 2017 2D Game Development Projects* Lauren S. Ferro,Francesco Sapio,2018-01-19 Build classic arcade shooter and platform games with Unity 2D toolset Key Features Leverage the amazing new functionalities of the latest Unity 2017 2D toolkit Learn to create 2D characters animations fast and efficient game play experiences while keeping your games very lightweight Create engaging games that enable you to perform intergalactic warfare and also fun games similar to temple run and so on Book Description 2D games are everywhere Timeless and popular 2D games represent a substantial segment of the games market The Unity engine has revolutionized the gaming industry by making it easier for game developers to create quality games on a budget If you are looking for a guide to create 2D games using Unity 2017 look no further With this book you will learn all the essentials of 2D game development by creating three epic games in a step by step manner throughout the course of this book The first game will have you collecting as many cakes as possible The second will transport you to outer space to traverse as far as possible while avoiding enemy spaceships The last game will have you running and jumping across platforms to collect coins and other exotic items Throughout all these three games you will create characters make them move and create some enemies And then of course write code to destroy them After showing you the necessities of creating a game this book will then help you to porting the game to a mobile platform and provide a path to publish it on the stores By the end of this book you will not only have created three complete great games but be able to apply your knowledge to create and deploy your own games What you will learn Work with Unity 2017 s new 2D workflow and create a 2D scene Set the scene with different types of backgrounds either static or dynamically using a tileset Bring your character to life through simple animations Understand the core concepts of programming by creating basic code that controls a character and destroys an enemy Create buttons and game controls by using code snippets for input detection

Develop three 2D games from genres such as classic arcade space shooter and platformer games Add audio and feedback and deploy your games Who this book is for If you are interested in creating your very own 2D games from scratch then this book will give you all the tools you need to succeed No C knowledge is required all you need is basic coding and scripting knowledge Whether you are completely new to Unity or have used Unity before and would like to learn about the new 2D features of Unity this book is for you   Unity Game Development in 24 Hours, Sams Teach Yourself Mike Geig,2021-10-08 In just 24 lessons of one hour or less Sams Teach Yourself Unity Game Development in 24 Hours will help you master the Unity 2021 game engine at the heart of Inside Kerbal Space Program Subnautica 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 Four sample game projects illustrate the topics 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 Learn how to Get up and running fast with the Unity 2021 game engine and editor Work efficiently with Unity s graphical asset pipeline Make the most of lights and cameras Sculpt stunning worlds with Unity s terrain and environmental tools Script tasks ranging from capturing input to building complex behaviors Quickly create repeatable reusable game objects with prefabs Implement easy intuitive game user interfaces Control players through built in and custom character controllers Build realistic physical and trigger collisions Leverage the full power of Unity s Animation and Timeline systems Integrate complex audio into your games Use mobile device accelerometers and multi touch displays Build engaging 2D games with Unity s 2D tools and Tilemap Apply the finishing touchesand deploy your games   **Unity 5.x 2D Game Development Blueprints** Francesco Sapio,2016 Explore the features of Unity 5 for 2D game development by building three amazing game projects About This Book Explore the 2D architecture of Unity 5 and the tools and techniques for developing 2D games Discover how to use Unity s 2D tools including Sprites physics and maps to create different genres of games Practical tutorial on the intermediate and advanced development concepts in Unity 5 to create three interesting and fully functional games Who This Book Is For If you ve got the basics of 2D development down push your skills with the projects in this hands on guide Diversify your portfolio and learn the skills needed to build a range of awesome 2D game genres What You Will Learn Explore and understand the vital role of sprites in 2D games Move animate and integrate sprites into a 2D platform game Set up User Interfaces UIs to keep track of the progress through the games Apply 2D Physics to improve gameplay believability Learn the foundation of Level Design and how to quickly create 2D Maps Discover NPC design event triggers and AI programming Create an epic strategy game challenging all the skills acquired in the book In Detail Flexible powerful and full of rich features Unity 5 is the engine of choice for AAA 2D and 3D game development With comprehensive

support for over 20 different platforms Unity boasts a host of great new functions for making 2D games Learn how to leverage these new options into awesome 2D games by building three complete game projects with the Unity game tutorials in this hands on book Get started with a quick overview of the principle concepts and techniques needed for making 2D games with Unity then dive straight in to practical development Build your own version of Super Mario Brothers as you learn how to animate sprites work with physics and construct brilliant UIs in order to create a platformer game Go on a quest to create a RPG game discovering NPC design event triggers and AI programming Finally put your skills to the test against a real challenge designing and constructing a complex strategy game that will draw on and develop all your previously learned skills Style and approach This is a practical and easy to follow guide that starts with the basics and gradually delves into the process of creating 2D games With step by step instructions on how to build three games followed by a detailed explanation of each example you will understand the concepts not just in theory bu *Hands-On Game Development without Coding* Lucas Bertolini,2018-11-30 Develop your own games with Unity 2D 3D Game Kit and use it for your presentations kids education level design game design proofs of concept or even just for fun Key FeaturesBuild your first ever video game using Unity 2D 3D Game kitLearn how to create game levels adding props giving behaviours to objects and working on gameplayStep by step instructions on creating your own AI enemy and interacting with itBook Description Hands On Game Development without Coding is the first Visual Scripting book in the market It was tailor made for a non programing audience who are wondering how a videogame is made After reading this book you will be able to develop your own 2d and 3d videogames and use it on your presentations to speed up your level design deliveries test your game design ideas work on your proofs of concept or even doing it just for fun The best thing about Hands On Game Development without Coding is that you don t need any previous knowledge to read and understand the process of creating a videogame It is our main focus to provide you with the opportunity to create a videogame as easy and fast as possible Once you go through the book you will be able to create player input interaction levels object behaviours enemy AI creating your own UI and finally giving life to your game by building it It s Alive What you will learnUnderstanding the Interface and kit flow Comprehend the virtual space and its rules Learning the behaviours and roles each component must have in order to make a videogame Learn about videogame developmentCreating a videogame without the need of learning any programming languageCreate your own gameplay HUD to display player and Enemy informationWho this book is for This book is for anyone who is interested in becoming a game developer but do not posses any coding experience or programming skills All you need is a computer and basic software interface knowledge   Unity 5.x 2D Game Development Blueprints Francesco Sapio,Abdelrahman Saher,2016-09-30 Explore the features of Unity 5 for 2D game development by building three amazing game projects About This Book Explore the 2D architecture of Unity 5 and the tools and techniques for developing 2D games Discover how to use Unity s 2D tools including Sprites physics and maps to create different genres of games Practical tutorial on the intermediate and advanced

development concepts in Unity 5 to create three interesting and fully functional games Who This Book Is For If you ve got the basics of 2D development down push your skills with the projects in this hands on guide Diversify your portfolio and learn the skills needed to build a range of awesome 2D game genres What You Will Learn Explore and understand the vital role of sprites in 2D games Move animate and integrate sprites into a 2D platform game Set up User Interfaces UIs to keep track of the progress through the games Apply 2D Physics to improve gameplay believability Learn the foundation of Level Design and how to quickly create 2D Maps Discover NPC design event triggers and AI programming Create an epic strategy game challenging all the skills acquired in the book In Detail Flexible powerful and full of rich features Unity 5 is the engine of choice for AAA 2D and 3D game development With comprehensive support for over 20 different platforms Unity boasts a host of great new functions for making 2D games Learn how to leverage these new options into awesome 2D games by building three complete game projects with the Unity game tutorials in this hands on book Get started with a quick overview of the principle concepts and techniques needed for making 2D games with Unity then dive straight in to practical development Build your own version of Super Mario Brothers as you learn how to animate sprites work with physics and construct brilliant UIs in order to create a platformer game Go on a quest to create a RPG game discovering NPC design event triggers and AI programming Finally put your skills to the test against a real challenge designing and constructing a complex strategy game that will draw on and develop all your previously learned skills Style and approach This is a practical and easy to follow guide that starts with the basics and gradually delves into the process of creating 2D games With step by step instructions on how to build three games followed by a detailed explanation of each example you will understand the concepts not just in theory but also by applying the knowledge you gain in practice **The Ultimate Guide to 2D games with Unity** Patrick Feliia,2020-07-31 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 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 tested method download this book now

Getting Started with Unity 2D Game Development Ashley Godbold,2017 This video will help you build 2D games in Unity using the engine s 2D technologies based on Version 5 x You will be shown how to get up and running with Unity 5 4 1 including the basic steps to choose the appropriate edition and install the software You will also be shown how to find older versions of Unity and learn about the key differences compared to previous versions To start with you will learn the introductory information needed to work in Unity 2D game development The video describes the process of setting up a project in 2D mode covers the use of 2D sprites discusses ways to access 2D objects via code and explains the basics of the User Interface It then covers the very first game genre text adventure and you will go on to create an example of this with the various elements discussed earlier in the chapter Resource description page *Mastering Unity 2D Game Development* Simon Jackson,2014-08-26 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

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