



Unity 2D Game Development

Combine classic 2D with today's technology to build great games with Unity's latest 2D tools

Dave Calabrese

[PACKT]
PUBLISHING

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David Kirk



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Unity 2D Game Development Dave Calabrese, 2014-03 A fun easy to follow experience that takes you from an empty project in Unity 4.3 all the way to a finished functional 2D platformer while giving you challenges and ideas to take what you learn in this book and expand upon it This book is ideal for anyone who wants to learn how to build 2D video games or who just wants to expand their knowledge of the Unity game engine It would be helpful to know how to navigate your way around Unity and some basic C# before getting started with this book however if you don't no worries we will point you in the right direction

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 Mudah Membuat Game dan Potensi Finansialnya dengan Unity 3D Baskara Arya Pranata, Andre Kurniawan Pamoedji, 2015-02-09 Saat ini cukup banyak alat bantu pembuatan game yang dapat digunakan untuk mengembangkan permainan komputer sendiri tanpa harus mempunyai kemampuan pemrograman sebelumnya Bahkan game yang dihasilkan bisa lebih hebat dan lebih menarik dibandingkan buatan programmer komputer sekalipun Unity 3D adalah salah satunya Buku ini membahas pembuatan berbagai jenis game melalui langkah langkah mudah Penjelasan yang sistematis disertai dengan gambar gambar pendukung akan membimbing Anda menciptakan game karya sendiri dengan mudah dan cepat Tak lupa dijelaskan pula potensi finansial yang menggiurkan berikut cara menggapainya Game yang dibahas dalam buku ini Game cerita berbasis novel Game tipe First Person Shooter Game Flappy Bird *Directions* ,1980 **Unity 2D Game Development Cookbook** Claudio Scolastici, 2015-02-18 This book is intended for both professionals game developers and hobbyist 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 **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 **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 **Developing 2D Games with Unity** Jared Halpern, 2018-11-28 Follow a walkthrough of the Unity Engine and learn important 2D centric lessons in scripting working with image assets animations cameras collision detection and state management In addition to the fundamentals you ll learn best practices helpful game architectural patterns and how to customize Unity to suit your needs all in the context of building a working 2D game While many books focus on 3D game creation with Unity the easiest market for an independent developer to thrive in is 2D games 2D games are generally cheaper to produce more feasible for small teams and more likely to be completed If you live and breathe games and want to create them then 2D games are a great place to start By focusing exclusively on 2D games and Unity s ever expanding 2D workflow this book gives aspiring independent game developers the tools they need to thrive Various real world examples of independent games are used to teach fundamental concepts of developing 2D games in Unity using the very latest tools in Unity s updated 2D workflow New all digital channels for distribution such as Nintendo eShop Xbox Live Marketplace the Playstation Store the App Store Google Play itch io Steam and GOG com have made it easier than ever to discover buy and sell games The golden age of independent gaming is upon us and there has never been a better time to get creative roll up your sleeves and build that game you ve always dreamed about Developing 2D Games with Unity can show you the way What You ll Learn Delve deeply into useful 2D topics such as sprites tile slicing and the brand new Tilemap feature Build a working 2D RPG style game as

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

Game Development Patterns with Unity 2021
David Baron,2021-07-30 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 DescriptionThis 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

Learning 2D Game Development with Unity Matthew Johnson,James A. Henley,2014-12-12 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

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