Learning C# by Developing Games with Unity 5.x

Second Edition

Develop your first interactive 2D platformer game by learning the fundamentals of C#

Greg Lukosek

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Learning C By Developing Games With Unity 5 X Second Edition

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Learning C By Developing Games With Unity 5 X Second Edition:
    Learning C# by Developing Games with Unity 5. X Second Edition Greg Lukosek,2016 Develop your first interactive 2D platformer game by learning the fundamentals of C About This Book Get to grips with the fundamentals of scripting in C with Unity Create an awesome 2D platformer game from scratch using the principles of object oriented programming and coding in C This is a step by step guide to learn the fundamentals of C scripting to develop GameObjects and master the basics of the new UI system in UnityWho This Book Is ForThe book is targeted at beginner level Unity developers with no programming experience If you are a Unity developer and you wish to learn how to write C scripts and code by creating games then this book is for you What You Will Learn Understand the fundamentals of variables methods and code syntax in C Get to know about techniques to turn your game idea into working project Use loops and collections efficiently in Unity to reduce the amount of code Develop a game using the object oriented programming principles Generate infinite levels for your game Create and code a good looking functional UI system for your game Publish and share your game with usersIn DetailUnity is a cross platform game engine that is used to develop 2D and 3D video games Unity 5 is the latest version released in March 2015 and adds a real time global illumination to the games and its powerful new features help to improve a game s efficiency This book will get you started with programming behaviors in C so you can create 2D games in Unity You will begin by installing Unity and learning about its features followed by creating a C script We will then deal with topics such as unity scripting for you to understand how codes work so you can create and use C variables and methods Moving forward you will find out how to create store and retrieve data from collection of objects You will also develop an understanding of loops and their use and you ll perform object oriented programming This will help you to turn your idea into a ready to code project and set up a Unity project for production Finally you will discover how to create the GameManager class to manage the game play loop generate game levels and develop a simple UI for the game By the end of this book you will have mastered the art of applying C in Unity Style and approachThis is a step by step guide to developing a game from scratch by applying the fundamentals of C and Unity scripting   **Learning C# by Developing Games with Unity 5.x** Greg Lukosek,2016-03-31 Develop your first interactive 2D platformer game by learning the fundamentals of C About This Book Get to grips with the fundamentals of scripting in C with Unity Create an awesome 2D platformer game from scratch using the principles of object oriented programming and coding in C This is a step by step guide to learn the fundamentals of C scripting to develop GameObjects and master the basics of the new UI system in Unity Who This Book Is For The book is targeted at beginner level Unity developers with no programming experience If you are a Unity developer and you wish to learn how to write C scripts and code by creating games then this book is for you What You Will Learn Understand the fundamentals of variables methods and code syntax in C Get to know about techniques to turn your game idea into working project Use loops and collections efficiently in Unity to reduce the amount of code Develop a game using the object oriented

programming principles Generate infinite levels for your game Create and code a good looking functional UI system for your game Publish and share your game with users In Detail Unity is a cross platform game engine that is used to develop 2D and 3D video games Unity 5 is the latest version released in March 2015 and adds a real time global illumination to the games and its powerful new features help to improve a game s efficiency This book will get you started with programming behaviors in C so you can create 2D games in Unity You will begin by installing Unity and learning about its features followed by creating a C script We will then deal with topics such as unity scripting for you to understand how codes work so you can create and use C variables and methods Moving forward you will find out how to create store and retrieve data from collection of objects You will also develop an understanding of loops and their use and you ll perform object oriented programming This will help you to turn your idea into a ready to code project and set up a Unity project for production Finally you will discover how to create the GameManager class to manage the game play loop generate game levels and develop a simple UI for the game By the end of this book you will have mastered the art of applying C in Unity Style and approach This is a step by step guide to developing a game from scratch by applying the fundamentals of C and Unity scripting   **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 realityAbout 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 ForBeginner 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 mistakesIn DetailUnity 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 in 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 approachThis 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   Learning C# by Developing Games with Unity Moaml Mohmmed,Emma William,2020-10-27 Learning C by Developing Games with Unity C Programming for Unity Game DevelopmentAbout this bookNever before has the video game market been at a better time There are currently many platforms available and the emergence of mobile devices has revolutionized the sector The existence of multiple platforms implies great challenges for developers in decision making both in the choice of platforms and in the sizing of work teams One solution to these problems is to use a game engine and without a doubt the most popular and used engine of the moment is Unity Unity is the most popular engine for reasons such as its powerful tools its ability to generate games on more than 20 different platforms its excellent learning curve and the hundreds of add ons available to it developed by third parties What you ll learnIn this book you will learn in a practical way with numerous examples that will guide you step by step Getting to know the Unity interface Learn C programming syntax from scratch What the fundamental elements of the Unity engine are Understand programming fundamentals with practice examples in C Explore the interface and features of Unity Create a game design document and prototype level Explore intermediate programming topics and best practices Implement game mechanics interactions and UI elements with C develop your first games   *Mastering Unity 5.x* Alan Thorn,2017-01-27 Create amazing games with solid gameplay features using a professional grade workflow inside the Unity engine About This Book Become a Unity master by creating a practical in depth game development project with Unity Use advanced C scripting to unlock the complete potential of Unity 5 Use Version Control to Effectively Manage and Scale your workflow Who This Book Is For If you are a Unity developer who now wants to develop and deploy interesting games by leveraging the new features of Unity 5 x then this is the book for you Basic knowledge of C programming is assumed What

You Will Learn Explore hands on tasks and real world scenarios to make a Unity horror adventure game Create enemy characters that act intelligently and make reasoned decisions Use data files to save and restore game data in a way that is platform agnostic Get started with VR development Use Navigation Meshes Occlusion Culling and the Profiler tools Work confidently with GameObjects Rotations and Transformations Understand specific gameplay features such as AI enemies inventory systems and level design In Detail Do you want to take the leap from being an everyday Unity developer to being a pro game developer Then look no further This book is your one stop solution to creating mesmerizing games with lifelike features and amazing gameplay This book takes an in depth focus on a practical project with Unity building a first person game with many features You ll dive deep into the architecture of a Unity game creating expansive worlds interesting render effects and other features to make your games special You will create individual game components use efficient animation techniques and implement collision and physics effectively Specifically we ll explore optimal techniques for importing game assets such as meshes and textures tips and tricks for effective level design how to animate and script NPCs how to configure and deploy to mobile devices how to prepare for VR development and how to work with version control and more By the end of this book you ll have developed sufficient competency in Unity development to produce fun games with confidence Style and approach This book takes a step by step practical tutorial approach You will create an advanced level Unity game with an emphasis on leveraging the advanced Unity 5 features You will make the most of the Unity 5 advanced features while you develop the game in its entirety   **Research in Education** ,1974   *Resources in Education* ,1974   **Understanding socioemotional and academic adjustment during childhood and adolescence: Volume II** José Manuel García-Fernández,Carolina Gonzálvez,Ricardo Sanmartín,Nelly Lagos San Martín,Maria Vicent,2023-02-02   **Subject Guide to Books in Print** ,1993   Paperbound Books in Print ,1992   **Forthcoming Books** Rose Arny,2001   **Subject Guide to Children's Books in Print 1997** Bowker Editorial Staff,R R Bowker Publishing,1996-09   **El-Hi Textbooks and Serials in Print** ,2006   *Subject Guide to Children's Books in Print* ,1978   Learning C# Programming with Unity 3D, second edition Alex Okita,2019-09-09 Learning C Programming with Unity 3D Second Edition is for the novice game programmer without any prior programming experience Readers will learn how C is used to make a game in Unity 3D Many example projects provide working code to learn from and experiment with As C evolves Unity 3D evolves along with it Many new features and aspects of C are included and explained Common programming tasks are taught by way of making working game mechanics The reader will understand how to read and apply C in Unity 3D and apply that knowledge to other development environments that use C New to this edition includes latest C language features and useful tools included with the NET library like LINQ Local Functions Tuples and more Key Features Provides a starting point for the first time programmer C Code examples are simple short and clear Learn the very basics on up to interesting tricks which C offers   **Books in Print** ,1991   **Joyce in the Belly of the Big Truck; Workbook** Joyce A. Cascio,2005-05   International

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Unveiling the Magic of Words: A Report on "**Learning C By Developing Games With Unity 5 X Second Edition**"

In a world defined by information and interconnectivity, the enchanting power of words has acquired unparalleled significance. Their ability to kindle emotions, provoke contemplation, and ignite transformative change is actually awe-inspiring. Enter the realm of "**Learning C By Developing Games With Unity 5 X Second Edition**," a mesmerizing literary masterpiece penned by a distinguished author, guiding readers on a profound journey to unravel the secrets and potential hidden within every word. In this critique, we shall delve to the book is central themes, examine its distinctive writing style, and assess its profound affect the souls of its readers.

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