

Unity Game Development In 24 Hours Sams Teach Yourself 2nd Edition

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How to Become a Video Game Artist Sam Kennedy 2013 Draws on interviews with leading professionals to provide a crash course in the different skills video game artists need, in a work that features screenshots from popular games, step-by-step game art lessons, and portfolio samples.

Godot From Zero to Proficiency (Foundations) Patrick Felicia 2021-03-11 Get started with Godot and game programming fast without the headaches Godot is a great software to create video games; however, it includes so many options and features that getting started can feel overwhelming. Without my book, most people spend too long trying to learn how to use Godot the hard way. This book is the only one that will get you to learn Godot fast without wasting so much time. This book is the first book in the series “Godot from Zero to Proficiency” where you will learn to code fast and be able to create your own video games with Godot in no time. What you will learn After completing this book, you will be able to: - Know and master the features that you need to create 3D environments for your games. - Quickly create (and navigate through) realistic 3D indoors and outdoors environments. - Create a 3D Maze with lights, walls, and textures. - Create an island with sandy beaches, mountains, and water. - Include and control a car. - Export your games for Mac or PC. Who this book is for This book is for: - Hobbyists who need a book that gets them started with Godot and game development easily. - Parents looking for a book that introduces their children to game programming painlessly. - Teachers looking for a complete and clear resource on programming through the creation of games. - Aspiring indie game developers. How this book is different This is the only book that you need to get started with Godot fast and to enjoy the journey without the frustration. This book includes six chapters that painlessly guide you through the necessary skills to master Godot’s interface, use its core features, and create and navigate through realistic 3D environments. It assumes no prior knowledge on your part and ensures that you have all the information and explanations that you need every step of the way. What this book offers This book includes all the features that you need to get started with Godot and game development: - Learn without the headaches: This book assumes that you can’t be expected to learn everything at once; this is why you will build all your skills incrementally. - Make your dream of creating your own games come true: This book ensures that you stay motivated by giving you the right amount of information and challenge in each chapter; we all know that it’s hard to keep motivated when learning a new skill, so this book always contextualizes the knowledge with an example (so that you feel it’s relevant), and also makes sure that you get to challenge yourself, if you need to, with optional challenges present at the end of each chapter. - Progress and feel confident in your skills: You will have the opportunity to learn and to use Godot at your own pace and to become comfortable with its interface. This is because every single new concept introduced will be explained in great detail so that you never feel lost. All the concepts are introduced progressively so that you don’t feel overwhelmed. - Create your own games and feel awesome: With this book, you will build your 3D environments and you will spend more time creating than reading, to ensure that you can apply the concepts covered in each section. All chapters include step-by-step instructions with examples that you can use straight-away. If you want to get started with Godot today, then buy this book now

How to Teach Speaking Scott Thornbury 2011

Sams Teach Yourself JavaScript in 24 Hours Michael Moncur 2006-06-21 JavaScript is one of the easiest, most straightforward ways to enhance a website with interactivity. Sams Teach Yourself JavaScript in 24 Hours, 4th Edition serves as an easy-to-understand tutorial on both scripting basics and JavaScript itself. The book is written in a clear and personable style with an extensive use of practical, complete examples. It also includes material on the latest developments in JavaScript and web scripting. You will learn how to use JavaScript to enhance web pages with interactive forms, objects, and cookies, as well as how to use JavaScript to work with games, animation, and multimedia.

Sams Teach Yourself, Unity 2018 Game Development in 24 Hours, Third Edition Mike Geig 2018

Unity Game Development in 24 Hours, Sams Teach Yourself® Mike Geig 2013 In just 24 sessions of one hour or less, Sams Teach Yourself Unity Game Development in 24 Hours will help you master the Unity 4 game engine at the heart of Temple Run and many other sizzling-hot mobile games! You’ll learn 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 4 game development tasks. Quizzes and Exercises at the end of each chapter help you test your knowledge. Notes present interesting information related to the discussion. Tips offer advice or show you easier ways to perform tasks. Cautions alert you to possible problems and give you advice on how to avoid them. Learn how to ... Create and work with game objects, Unity’s fundamental building blocks Work efficiently with Unity’s graphical asset pipeline Apply shaders and textures to any 3D object Sculpt stunning game worlds with Unity’s terrain and environmental toolsets Script tasks ranging from capturing input to building complex behaviors Quickly create repeatable, reusable game objects with prefabs Implement easy, intuitive game user interfaces Create amazing effects with Unity’s new Shuriken particle system Leverage the full power of Unity’s new Mecanim animation system Integrate ambient 2D/3D audio into your games Use mobile device accelerometers and multi-touch displays Modify a desktop game for mobile platforms Apply the "finishing touches" and deploy your game.

Unreal Engine 4 for Design Visualization Tom Shannon 2017-07-24 The Official, Full-Color Guide to Developing Interactive Visualizations, Animations, and Renderings with Unreal Engine 4 Unreal Engine 4 (UE4) was created to develop video games, but it has gone viral among architecture, science, engineering, and medical visualization communities. UE4’s stunning visual quality, cutting-edge toolset, unbeatable price (free!), and unprecedented ease of use redefines the state of the art and has turned the gaming, film, and visualization industries on their heads. Unreal Engine 4 for Design Visualization delivers the knowledge visualization professionals need to leverage UE4’s immense

power. World-class UE4 expert Tom Shannon introduces Unreal Engine 4’s components and technical concepts, mentoring you through the entire process of building outstanding visualization content—all with realistic, carefully documented, step-by-step sample projects. Shannon answers the questions most often asked about UE4 visualization, addressing issues ranging from data import and processing to lighting, advanced materials, and rendering. He reveals important ways in which UE4 works differently from traditional rendering systems, even when it uses similar terminology. Throughout, he writes from the perspective of visualization professionals in architecture, engineering, or science—not gaming. Understand UE4’s components and development environment Master UE4’s pipeline from source data to delivered application Recognize and adapt to the differences between UE4 and traditional visualization and rendering techniques Achieve staggering realism with UE4’s Physically Based Rendering (PBR) Materials, Lighting, and Post-Processing pipelines Create production-ready Materials with the interactive real-time Material Editor Quickly set up projects, import massive datasets, and populate worlds with accurate visualization data Develop bright, warm lighting for architectural visualizations Create pre-rendered animations with Sequencer Use Blueprints Visual Scripting to create complex interactions without writing a single line of code Work with (and around) UE4’s limitations and leveraging its advantages to achieve your vision All UE4 project files and 3ds Max source files, plus additional resources and links, are available at the book’s companion website.

Unity Game Development in 24 Hours, Sams Teach Yourself Ben Tristem 2015-11-16 In just 24 lessons of one hour or less, Sams Teach Yourself Unity Game Development in 24 Hours will help you master the Unity 5 game engine at the heart of Hearthstone: Heroes of Warcraft, Kerbal Space Program, 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. 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.

Introduction to Game Design, Prototyping, and Development Jeremy Gibson 2014 This hands-on guide covers both game development and design, and both Unity and C#. This guide illuminates the basic tenets of game design and presents a detailed, project-based introduction to game prototyping and development, using both paper and the Unity game engine. 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.

Hands-On Unity 2020 Game Development Nicolas Alejandro Borrromeo 2020-07-29 Build immersive game experiences using the new Unity 2020 features with this practical guide Key FeaturesUnleash the capabilities of C# scripting for creating immersive UI, graphics, Game AI agents and much moreExplore Unity’s latest tools, including Universal Render Pipeline, Shader Graph, and VFX graph, to enhance graphics and animationGet started with building augmented reality experience using Unity’s AR FoundationBook Description Over the years, the Unity game engine has extended its scope from just being about creating video games to building AR/VR experiences, complex simulations, real-time realistic rendering, films, and serious games for training and education. Its features for implementing gameplay, graphics, and customization using C# programming make Unity a comprehensive platform for developing professional-level, rich experiences. With this book, you’ll be able to build impressive Unity projects in a step-by-step manner and apply your knowledge of Unity concepts to create a real-world game. Complete with hands-on tutorials and projects, this easy-to-follow guide will show you how to develop your first complete game using a variety of Unity tools. As you make progress, you’ll learn how to make the most of the Unity Editor and create scripts using the C# programming language. This Unity game development book will then take you through integrating graphics, sound, and animations and manipulating physics to create impressive mechanics for your games. You’ll also learn how to code a simple AI agent to challenge the user and use profiling tools to ensure that the code runs in a performant way. Finally, you’ll get to grips with Unity’s AR Foundation for creating AR experiences for 3D apps and games. By the end of this book, you’ll have developed a complete game and will have built a solid foundation using Unity’s tooling ecosystem to develop game projects of any scale. What you will learnWrite scripts for customizing various aspects of a game, such as physics, gameplay, and UIProgram rich shaders and effects using Unity’s new Shader Graph and Universal Render PipelineImplement postprocessing to increase graphics quality with full-screen effectsCreate rich particle systems for your Unity games from scratch using VFX Graph and ShurikenAdd animations to your game using the Animator, Cinemachine, and TimelineImplement game artificial intelligence (AI) to control character behaviorDetect and fix optimization issues using profilers and batchingWho this book is for This book is for game developers looking to migrate to the Unity game engine. If you are a developer with some exposure to Unity, this book will help you explore its latest features. Prior experience with C# programming is required to get the most out of the book.

Designing Games Tynan Sylvester 2013-01-03 Ready to give your design skills a real boost? This eye-opening book helps you explore the design structure behind most of today’s hit video games. You’ll learn principles and practices for crafting games that generate emotionally charged experiences—a combination of elegant game mechanics, compelling fiction, and pace that fully immerses players. In clear and approachable prose, design pro Tynan Sylvester also looks at the day-to-day process necessary to keep your project on track, including how to work with a team, and how to avoid creative dead ends. Packed with examples, this book will change your perception of game design. Create game mechanics to trigger a range of emotions and provide a variety of play Explore several options for combining narrative with interactivity Build interactions that let multiplayer gamers get into each other’s heads Motivate players through rewards that align with the rest of the game Establish a metaphor vocabulary to help players learn which design aspects are game mechanics Plan, test, and analyze your design through iteration rather than deciding everything up front Learn

how your game's market positioning will affect your design

Sams Teach Yourself Mod Development for Minecraft in 24 Hours Jimmy Koene 2015-10-31 In just 24 sessions of one hour or less, Sams Teach Yourself Mod Development for Minecraft in 24 Hours will help you transform Minecraft into anything you can imagine—and share your vision with millions of players worldwide! You'll learn all the mod development skills you need as you walk through a complete step-by-step project, complete with a mob, new tools, new armor, food, ores, and much more. Every lesson builds on what you've already learned, giving you a rock-solid foundation for building any mod and creating any world! Step-by-step instructions carefully walk you through the most common Minecraft mod development tasks. Quizzes and exercises at the end of each chapter help you test your knowledge. Notes present interesting information related to the discussion. Tips offer advice or show you easier ways to perform tasks. Cautions alert you to possible problems and give you advice on how to avoid them. Minecraft is a registered trademark of Mojang Synergies / Notch Development AB. This book is not affiliated with or sponsored by Mojang Synergies / Notch Development AB. Learn how to... Set up the environment where you'll write your mod for Minecraft 1.8 Create the basics for your mod with the Forge API Establish a framework that makes it easier to build complex mods Work with recipes and other small modifications Create multiple recipes, items, blocks, and entities at once Cook up food items that heal your players Make custom pickaxes, shovels, and completely original tools Use Tile Entities to create complex and unique mods Create interesting custom armor for players Generate entire worlds, including ores and plants Design and generate new structures with MCEdit Understand Entities and create Entity Models with Techne Code mobs with a custom Entity Model Manufacture Throwables Edit Minecraft functionality without breaking other mods Structure, package, and release your mod Master Java programming techniques you can use far beyond Minecraft On the Web: Register your book at informit.com/title/9780672337635 for access to all code examples and resources from this book, as well as updates and corrections as they become available.

Game Development Projects with Unreal Engine Hammad Fozi 2020-11-27 Learn the tools and techniques of game design using a project-based approach with Unreal Engine 4 and C++ Key FeaturesKickstart your career or dive into a new hobby by exploring game design with UE4 and C++Learn the techniques needed to prototype and develop your own ideasReinforce your skills with project-based learning by building a series of games from scratchBook Description Game development can be both a creatively fulfilling hobby and a full-time career path. It's also an exciting way to improve your C++ skills and apply them in engaging and challenging projects. Game Development Projects with Unreal Engine starts with the basic skills you'll need to get started as a game developer. The fundamentals of game design will be explained clearly and demonstrated practically with realistic exercises. You'll then apply what you've learned with challenging activities. The book starts with an introduction to the Unreal Editor and key concepts such as actors, blueprints, animations, inheritance, and player input. You'll then move on to the first of three projects: building a dodgeball game. In this project, you'll explore line traces, collisions, projectiles, user interface, and sound effects, combining these concepts to showcase your new skills. You'll then move on to the second project; a side-scroller game, where you'll implement concepts including animation blending, enemy AI, spawning objects, and collectibles. The final project is an FPS game, where you will cover the key concepts behind creating a multiplayer environment. By the end of this Unreal Engine 4 game development book, you'll have the confidence and knowledge to get started on your own creative UE4 projects and bring your ideas to life. What you will learnCreate a fully-functional third-person character and enemiesBuild navigation with keyboard, mouse, gamepad, and touch controlsProgram logic and game mechanics with collision and particle effectsExplore AI for games with Blackboards and Behavior TreesBuild character animations with Animation Blueprints and MontagesTest your game for mobile devices using mobile previewAdd polish to your game with visual and sound effectsMaster the fundamentals of game UI design using a heads-up displayWho this book is for This book is suitable for anyone who wants to get started using UE4 for game development. It will also be useful for anyone who has used Unreal Engine before and wants to consolidate, improve and apply their skills. To grasp the concepts explained in this book better, you must have prior knowledge of the basics of C++ and understand variables, functions, classes, polymorphism, and pointers. For full compatibility with the IDE used in this book, a Windows system is recommended.

Sams Teach Yourself Beginning Programming in 24 Hours Greg M. Perry 2001 Sams Teach Yourself Beginning Programming in 24 Hours, Second Edition explains the basics of programming in the successful 24-Hours format. The book begins with the absolute basics of programming: Why program? What tools to use? How does a program tell the computer what to do? It teaches readers how to program the computer and then moves on by exploring the some most popular programming languages in use. The author starts by introducing the reader to the Basic language and finishes with basic programming techniques for Java, C++, and others.

Bootstrap in 24 Hours, Sams Teach Yourself Jen Kramer 2015-08-21 Using responsive web design techniques, developers can build websites that automatically reflect each user's device size, screen resolution, and other aspects of their viewing experience. Until recently, however, building responsive sites required web professionals to hand-craft their own solutions using HTML5, CSS3, JavaScript, and jQuery. Developed by Twitter, the Bootstrap framework does all that for them, making responsive design easy and viable for millions of sites that could have never considered it before. Sams Teach Yourself Bootstrap in 24 Hours is the first complete, hands-on introduction to this powerful new web design front-end. Easy enough for everyone involved in web design, this tutorial organizes everything you need to know about Bootstrap into small, easy-to-learn chunks. Learn how to: Download Bootstrap and integrate it into your project Work with Bootstrap's grid-based layouts Utilize Bootstrap's resources to integrate base CSS, navigation systems, JavaScript/jQuery, and advanced CSS styling Rapidly create visually appealing functional prototypes with Bootstrap **Lord of the Flies** William Golding 2003-12-16 Golding's iconic 1954 novel, now with a new foreword by Lois Lowry, remains one of the greatest books ever written for young adults and an unforgettable classic for readers of any age. This edition includes a new Suggestions for Further Reading by Jennifer Buehler. At the dawn of the next world war, a plane crashes on an uncharted island, stranding a group of schoolboys. At first, with no adult supervision, their freedom is something to celebrate. This far from civilization they can do anything they want. Anything. But as order collapses, as strange howls echo in the night, as terror begins its reign, the hope of adventure seems as far removed from reality as the hope of being rescued.

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.

Sams Teach Yourself Unity® Game Development in 24 Hours, Second Edition Ben Tristem 2015 In just 24 lessons of one hour or less, Sams Teach Yourself Unity Game Development in 24 Hours will help you master the Unity 5 game engine at the heart of Hearthstone: Heroes of Warcraft, Kerbal Space Program, 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. 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 5 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 Mecanim animation system Integrate complex audio into your games Use mobile device accelerometers and multi-touch displays Modify desktop games for mobile platforms Apply the "finishing touches" and deploy your games.

Apache Spark in 24 Hours, Sams Teach Yourself Jeffrey Aven 2016-08-31 Apache Spark is a fast, scalable, and flexible open source distributed processing engine for big data systems and is one of the most active open source big data projects to date. In just 24 lessons of one hour or less, Sams Teach Yourself Apache Spark in 24 Hours helps you build practical Big Data solutions that leverage Spark's amazing speed, scalability, simplicity, and versatility. This book's straightforward, step-by-step approach shows you how to deploy, program, optimize, manage, integrate, and extend Spark—now, and for years to come. You'll discover how to create powerful solutions encompassing cloud computing, real-time stream processing, machine learning, and more. Every lesson builds on what you've already learned, giving you a rock-solid foundation for real-world success. Whether you are a data analyst, data engineer, data scientist, or data steward, learning Spark will help you to advance your career or embark on a new career in the booming area of Big Data. Learn how to • Discover what Apache Spark does and how it fits into the Big Data landscape • Deploy and run Spark locally or in the cloud • Interact with Spark from the shell • Make the most of the Spark Cluster Architecture • Develop Spark applications with Scala and functional Python • Program with the Spark API, including transformations and actions • Apply practical data engineering/analysis approaches designed for Spark • Use Resilient Distributed Datasets (RDDs) for caching, persistence, and output • Optimize Spark solution performance • Use Spark with SQL (via Spark SQL) and with NoSQL (via Cassandra) • Leverage cutting-edge functional programming techniques • Extend Spark with streaming, R, and Sparkling Water • Start building Spark-based machine learning and graph-processing applications • Explore advanced messaging technologies, including Kafka • Preview and prepare for Spark's next generation of innovations Instructions walk you through common questions, issues, and tasks; Q-and-As, Quizzes, and Exercises build and test your knowledge; "Did You Know?" tips offer insider advice and shortcuts; and "Watch Out!" alerts help you avoid pitfalls. By the time you're finished, you'll be comfortable using Apache Spark to solve a wide spectrum of Big Data problems.

Unity Game Development in 24 Hours, Sams Teach Yourself Ben Tristem 2015-12-03 In just 24 sessions of one hour or less, Sams Teach Yourself Unity Game Development in 24 Hours will help you master the Unity game engine at the heart of Hearthstone: Heroes of Warcraft, Kerbal Space Program and many other sizzling-hot games! You'll learn 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 5 game development tasks. Quizzes and Exercises at the end of each chapter help you test your knowledge. Notes present interesting information related to the discussion. Tips offer advice or show you easier ways to perform tasks. Cautions alert you to possible problems and give you advice on how to avoid them. Learn how to... Create and work with game objects, Unity's fundamental building blocks Work efficiently with Unity's graphical asset pipeline Apply shaders and textures to any 3D object Sculpt stunning game worlds with Unity's terrain and environmental toolsets Script tasks ranging from capturing input to building complex behaviors Quickly create repeatable, reusable game objects with prefabs Implement easy, intuitive game user interfaces Create amazing effects with Unity's particle system Leverage the full power of Unity's Mecanim animation system Integrate ambient 2D/3D audio into your games Use mobile device accelerometers and multi-touch displays Modify a desktop game for mobile platforms Apply the "finishing touches" and deploy your game

McGraw-Hill's 10 ACT Practice Tests, Second Edition Steven W. Dulan 2008-07-01 We want to give you the practice you need on the ACT McGraw-Hill's 10 ACT Practice Tests helps you gauge what the test measures, how it's structured, and

how to budget your time in each section. Written by the founder and faculty of Advantage Education, one of America's most respected providers of school-based test-prep classes, this book provides you with the intensive ACT practice that will help your scores improve from each test to the next. You'll be able to sharpen your skills, boost your confidence, reduce your stress-and to do your very best on test day. 10 complete sample ACT exams, with full explanations for every answer 10 sample writing prompts for the optional ACT essay portion Scoring Worksheets to help you calculate your total score for every test Expert guidance in prepping students for the ACT More practice and extra help online ACT is a registered trademark of ACT, Inc., which was not involved in the production of, and does not endorse, this product.

Learning C# by Developing Games with Unity 2019 Harrison Ferrone 2019-03-30 Unity, the world's leading real-time engine, is used to create half of the world's games. This book will teach programming newcomers the C# language in a fun and accessible way through game development. No prior programming or game development experience is required, only a curious mind.

Why Birds Matter Çagan H. Sekercioglu 2016-08-24 For over one hundred years, ornithologists and amateur birders have jointly campaigned for the conservation of bird species, documenting not only birds' beauty and extraordinary diversity, but also their importance to ecosystems worldwide. But while these avian enthusiasts have noted that birds eat fruit, carrion, and pests; spread seed and fertilizer; and pollinate plants, among other services, they have rarely asked what birds are worth in economic terms. In *Why Birds Matter*, an international collection of ornithologists, botanists, ecologists, conservation biologists, and environmental economists seeks to quantify avian ecosystem services—the myriad benefits that birds provide to humans. The first book to approach ecosystem services from an ornithological perspective, *Why Birds Matter* asks what economic value we can ascribe to those services, if any, and how this value should inform conservation. Chapters explore the role of birds in such important ecological dynamics as scavenging, nutrient cycling, food chains, and plant-animal interactions—all seen through the lens of human well-being—to show that quantifying avian ecosystem services is crucial when formulating contemporary conservation strategies. Both elucidating challenges and providing examples of specific ecosystem valuations and guidance for calculation, the contributors propose that in order to advance avian conservation, we need to appeal not only to hearts and minds, but also to wallets.

Pro Unity Game Development with C# Alan Thorn 2014-05-29 In *Pro Unity Game Development with C#*, Alan Thorn, author of *Learn Unity for 2D Game Development* and experienced game developer, takes you through the complete C# workflow for developing a cross-platform first person shooter in Unity. C# is the most popular programming language for experienced Unity developers, helping them get the most out of what Unity offers. If you're already using C# with Unity and you want to take the next step in becoming an experienced, professional-level game developer, this is the book you need. Whether you are a student, an indie developer, or a season game dev professional, you'll find helpful C# examples of how to build intelligent enemies, create event systems and GUIs, develop save-game states, and lots more. You'll understand and apply powerful programming concepts such as singleton classes, component based design, resolution independence, delegates, and event driven programming. By the end of the book, you will have a complete first person shooter game up and running with Unity. Plus you'll be equipped with the know-how and techniques needed to deploy your own professional-grade C# games. If you already know a bit of C# and you want to improve your Unity skills, this is just the right book for you.

OpenGL Game Development by Example Robert Madsen 2016-03-08 Design and code your own 2D and 3D games efficiently using OpenGL and C++ About This Book Create 2D and 3D games completely, through a series of end-to-end game projects Learn to render high performance 2D and 3D graphics using OpenGL Implement a rudimentary game engine using step-by-step code Who This Book Is For If you are a prospective game developer with some experience using C++, then this book is for you. Both prospective and experienced game programmers will find nuggets of wisdom and practical advice as they learn to code two full games using OpenGL, C++, and a host of related tools. What You Will Learn Set up your development environment in Visual Studio using OpenGL Use 2D and 3D coordinate systems Implement an input system to handle the mouse and the keyboard Create a state machine to handle complex changes in the game Load, display, and manipulate both 2D and 3D graphics Implement collision detection and basic physics Discover the key components needed to complete a polished game Handle audio files and implement sound effects and music In Detail OpenGL is one of the most popular rendering SDKs used to develop games. OpenGL has been used to create everything from 3D masterpieces running on desktop computers to 2D puzzles running on mobile devices. You will learn to apply both 2D and 3D technologies to bring your game idea to life. There is a lot more to making a game than just drawing pictures and that is where this book is unique! It provides a complete tutorial on designing and coding games from the setup of the development environment to final credits screen, through the creation of a 2D and 3D game. The book starts off by showing you how to set up a development environment using Visual Studio, and create a code framework for your game. It then walks you through creation of two games—a 2D platform game called *Roboracer 2D* and a 3D first-person space shooter game—using OpenGL to render both 2D and 3D graphics using a 2D coordinate system. You'll create sprite classes, render sprites and animation, and navigate and control the characters. You will also learn how to implement input, use audio, and code basic collision and physics systems. From setting up the development environment to creating the final credits screen, the book will take you through the complete journey of creating a game engine that you can extend to create your own games. Style and approach An easy-to-follow guide full of code examples to illustrate every concept and help you build a 2D and 3D game from scratch, while learning the key tools that surround a typical OpenGL project.

Unity Game Development in 24 Hours, Sams Teach Yourself Mike Geig 2021-08-15 In just 24 hours, readers will learn how to get started developing games with Unity. The approach is hands-on and modular. Each chapter covers an essential component of the game development process. Topics are illustrated with sample projects. The book also concludes with a complete game project. This book's straightforward, step-by-step approach teaches you everything from the absolute basics through sophisticated game physics, animation, and mobile device deployment techniques. Every lesson builds on what you've already learned, giving you a rock-solid foundation for real-world success.

Sams Teach Yourself Unity Game Development in 24 Hours Mike Geig 2014 A complete beginner's guide to game development with the powerful Unity game engine. CS Instructor and game designer, Mike Geig, offers a do-it-yourself approach to game development - with all of the main essentials covered. In just 24 hours, learn how to get started developing games with Unity with a hands-on and modular approach. Each chapter covers an essential component of the game development process, illustrated with sample projects, and including full source code, all 3rd party art assets (textures, fonts, models), and all 3rd party sound assets.

Godot Engine Game Development in 24 Hours, Sams Teach Yourself Ariel Manzur 2018-03-13 In just 24 sessions of one hour or less, this guide will help you create great 2D and 3D games for any platform with the 100% free Godot 3.0 game engine. Its straightforward, step-by-step approach guides you from basic scenes, graphics, and game flow through

advanced shaders, environments, particle rendering, and networked games. Godot's co-creator and main contributor walk you through building three complete games, offering advanced techniques you won't find anywhere else. 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 Godot engine programming tasks and techniques 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, solutions, and problems to avoid Learn how to... · Install Godot, create projects, and use the visual editor · Master the scene system, and organize games with Scene Trees · Create 2D graphics, 3D graphics, and animations · Use basic and advanced scripting to perform many game tasks · Process player input from any source · Control game flow, configurations, and resources · Maximize realism with Godot's physics and particle systems · Make the most of 3D shaders, materials, lighting, and shadows · Control effects and post-processing · Build richer, more sophisticated game universes with viewports · Develop networked games, from concepts to communication and input · Export games to the devices you've targeted · Integrate native code, third-party APIs, and engine extensions (bonus chapter)

Unity Game Development Cookbook Paris Buttfield-Addison 2019-03-13 Find out how to use the Unity Game Engine to its fullest for both 3D and 2D game development—from the basics to the hottest new tricks in virtual reality. With this unique cookbook, you'll get started in two ways: First, you'll learn about the Unity game engine by following very brief exercises that teach specific features of the software Second, this tutorial-oriented guide provides a collection of snippets that solve common gameplay problems, like determining if a player has completed a lap in a race Using our cookbook format, we pinpoint the problem, set out the solution, and discuss how to solve your problem in the best and most straightforward way possible so you can move onto the next step in the project. *Unity Game Development Cookbook* is ideal for beginning to intermediate Unity developers. Beginners will get a broad immersion into the Unity development environment, while intermediate developers will learn how to apply the foundational Unity skills they have to solve real game development problems.

Sams Teach Yourself SAP in 24 Hours Tim Rhodes 2004-07-16 Third Edition: Thoroughly Updated and Expanded, with Extensive New Coverage! In just 24 sessions of one hour or less, you'll master the entire SAP project lifecycle, from planning through implementation and system administration through day-to-day operations. Using this book's straightforward, step-by-step approach, you'll gain a strong real-world foundation in both the technology and business essentials of today's SAP products and applications—from the ground up. Step-by-step instructions walk you through the most common questions, issues, and tasks you'll encounter with SAP. Case study-based exercises help you build and test your knowledge. By the Way notes present interesting pieces of information. Did You Know? tips offer advice or teach an easier way. Watch Out! cautions warn about potential problems. Learn how to... Understand SAP's newest products for enterprises and small-to-midsize businesses, and choose the right solutions for your company Discover how SAP integrates with Web services and service-oriented architecture Develop an efficient roadmap for deploying SAP in your environment Plan your SAP implementation from business, functional, technical, and project management perspectives Leverage NetWeaver 7.0 features to streamline development and integration, and reduce cost Walk through a step-by-step SAP technical installation Master basic SAP system administration and operations Perform essential tasks such as logon, session management, and printing Build SAP queries and reports Prepare for SAP upgrades and enhancements Develop your own personal career as an SAP professional Register your book at informit.com/title/9780137142842 for convenient access to updates and corrections as they become available.

Google Daydream VR Cookbook Sam Keene 2018-08-30 The Complete, Up-to-Date Guide to Building AR and VR Games Google's new ARCore and Daydream VR platforms enable you to deliver advanced augmented and virtual reality games and apps on a wide spectrum of modern Android devices. Now for the first time, there's a comprehensive deep dive into both ARCore and Daydream for every Android developer and designer. Multi-award-winning AR/VR developer Sam Keene takes a hands-on approach, leading you through all aspects of the ARCore and Daydream frameworks and SDKs, with step-by-step tutorials and advice for building pro-quality AR/VR games and apps. Keene presents his material as a cookbook of recipes to get you up and running with VR/AR development as fast and as painlessly as possible. The recipes in most chapters start by assembling the essential building blocks, which are pieced together to create something larger. You are then free to take these building blocks and turn them into your own creation. Keene also provides an extensive library of downloadable, up-to-the-minute ARCore and Daydream code to jumpstart your project. In addition, he takes you through crucial UX design principles and best practices learned from building large scale VR and AR apps at Google. *Google Daydream VR Cookbook* shows you how to: Install and explore the Google Daydream development tools Master basic and advanced Daydream Controller techniques Implement intuitive VR user interfaces Integrate audio, video, and realistic physics into your VR games Install and explore the ARCore SDK and development tools Learn how to build AR apps that solve real user needs Master AR game development using ARCore Optimize VR and AR game performance Whether you are a software developer, UX professional, visual designer, beginner, or you come from a different design field, this book is a great practical introduction to VR and AR.

How To Teach Pronunciation (With Cd) Gerald Kelly 2006-09

Unity 5.x Cookbook Matt Smith 2015-10-05 Over 100 recipes exploring the new and exciting features of Unity 5 to spice up your Unity skillset About This Book Built on the solid foundation of the popular Unity 4.x Cookbook, the recipes in this edition have been completely updated for Unity 5 Features recipes for both 2D and 3D games Provides you with techniques for the new features of Unity 5, including the new UI system, 2D game development, new Standard Shaders, and the new Audio Mixer Who This Book Is For From beginners to advanced users, from artists to coders, this book is for you and everyone in your team! Programmers can explore multimedia features, and multimedia developers can try their hand at scripting. Basic knowledge and understanding of the Unity platform, game design principles, and programming knowledge in C# is essential. What You Will Learn Immerse players with great audio, utilizing Unity 5's audio features including the new Audio Mixer, ambient sound with Reverb Zones, dynamic soundtracks with Snapshots, and balanced audio via Ducking Create better materials with Unity's new, physically-based, Standard Shader Measure and control time, including pausing the game, displaying clocks and countdown timers, and even implementing “bullet time” effects Improve ambiance through the use of lights and effects such as reflection and light probes Create stylish user interfaces with the new UI system, including power-bars, clock displays, and an extensible inventory system Save and load text and media assets from local or remote sources, publish your game via Unity Cloud, and communicate with websites and their databases to create online scoreboards Discover advanced techniques, including the publisher-subscriber and state patterns, performance bottleneck identification, and methods to maximize game performance and frame rates Control 2D and 3D character movement, and use NavMeshAgents to write NPC and enemy behaviors such as seek, flee, flock, and waypoint path following In Detail Unity 5 is a flexible and intuitive multiplatform game engine that is becoming the industry's de

facto standard. Learn to craft your own 2D and 3D computer games by working through core concepts such as animation, audio, shaders, GUI, lights, cameras, and scripting to create your own games with Unity 5. Completely re-written to cover the new features of Unity 5, this book is a great resource for all Unity game developers, from those who have recently started using Unity right up to Unity professionals. The first half of the book focuses on core concepts of 2D game design while the second half focuses on developing 3D game development skills. In the first half, you will discover the new GUI system, the new Audio Mixer, external files, and animating 2D characters in 2D game development. As you progress further, you will familiarize yourself with the new Standard Shaders, the Mecanim system, Cameras, and the new Lighting features to hone your skills towards building 3D games to perfection. Finally, you will learn non-player character control and explore Unity 5's extra features to enhance your 3D game development skills. Style and approach Each chapter first introduces the topic area and explains how the techniques covered can enhance your games. Every recipe provides step-by-step instructions, followed by an explanation of how it all works, and useful additional refinements or alternative approaches. Every required resource and C# script (fully commented) is available to download, enabling you to follow each recipe yourself.

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.

Unreal Engine 4 Game Development in 24 Hours, Sams Teach Yourself Aram Cookson 2016-06-08 In just 24 lessons of one hour or less, learn how to start using Unreal Engine 4 to build amazing games for Windows, Mac, PS4, Xbox One, iOS, Android, the web, Linux-or all of them! Sams Teach Yourself Unreal Engine 4 Game Development in 24 Hours' straightforward, step-by-step approach shows you how to work with Unreal Engine 4's interface, its workflows, and its most powerful editors and tools. In just hours you'll be creating effects, scripting warfare, implementing physics-even developing for mobile devices and HUDs. Every lesson builds on what you've already learned, giving you a rock-solid foundation for real-world success. Organize new projects and work with the Gameplay Framework Master Unreal's units and control systems Import 3D models and work with the Static Mesh Editor Create new landscapes and use Unreal's foliage system Bring characters and creatures to life with the Persona Editor Apply materials and build lighting Integrate and modify audio with the Unreal Sound Cue Editor Craft particle effects and simulate physics Set up and react to player inputs Build levels and entirely new worlds Get started with powerful Blueprint visual scripting system Script an arcade game from start to finish Create events that respond to player actions Spawn Actors during gameplay Design and create action-based encounters Optimize games for mobile devices and touch-based inputs Build menus with Unreal's UMG

UI Designer Prepare your game for deployment Step-by-step instructions carefully walk you through the most common Unreal Engine 4 game development tasks. 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. All the project files and assets you'll need are available for download, including "before-and-after" files demonstrating initial setup and proper completion for every exercise.

Holistic Game Development with Unity Penny Baillie-de Byl 2011-11-15 The art of programming mechanics -- Real world mechanics -- Animation mechanics -- Game rules and mechanics -- Character mechanics -- Player mecahnics -- Environmental mechanics -- Mechanics for externl forces.

Learning C# by Developing Games with Unity 2020 Harrison Ferrone 2020-08-21 This fifth edition of the popular C# guide helps you learn the building blocks of C# language, right from variables to classes and exception handling. After getting to grips with the basics of C# programming, it takes you through the world of Unity game development and how you can apply C# knowledge using game development examples.

Unreal Engine 4 Game Development Quick Start Guide Rachel Cordone 2019-05-31 Learn how to use Unreal Engine 4 by building 3D and multiplayer games using Blueprints Key Features Learn the fundamentals of Unreal Engine such as project templates, Blueprints, and C++ Learn to design games; use UMG to create menus and HUDs, and replication to create multiplayer games Build dynamic game elements using Animation Blueprints and Behavior Trees Book Description Unreal Engine is a popular game engine for developers to build high-end 2D and 3D games. This book is a practical guide, starting off by quickly introducing you to the Unreal Engine 4 (UE4) ecosystem. You will learn how to create Blueprints and C++ code to define your game's functionality. You will be familiarized with the core systems of UE4 such as UMG, Animation Blueprints, and Behavior Trees. You will also learn how to use replication to create multiplayer games. By the end of this book, you will have a broad, solid knowledge base to expand upon on your journey with UE4. What you will learn Use project templates to give your game a head start Create custom Blueprints and C++ classes and extend from Epic's base classes Use UMG to create menus and HUDs for your game Create more dynamic characters using Animation Blueprints Learn how to create complex AI with Behavior Trees Use replication to create multiplayer games Optimize, test, and deploy a UE4 project Who this book is for Readers who already have some game development experience and Unity users who would like to try UE4 will all benefit from this book. Knowledge of basic Object-Oriented Programming topics such as variables, functions, and classes is assumed.

Unity in Action Joseph Hocking 2018-03-27 Summary Manning's bestselling and highly recommended Unity book has been fully revised! Unity in Action, Second Edition teaches you to write and deploy games with the Unity game development platform. You'll master the Unity toolset from the ground up, adding the skills you need to go from application coder to game developer. Foreword by Jesse Schell, author of The Art of Game Design Purchase of the print book includes a free eBook in PDF, Kindle, and ePub formats from Manning Publications. About the Technology Build your next game without sweating the low-level details. The Unity game development platform handles the heavy lifting, so you can focus on game play, graphics, and user experience. With support for C# programming, a huge ecosystem of production-quality prebuilt assets, and a strong dev community, Unity can get your next great game idea off the drawing board and onto the screen! About the Book Unity in Action, Second Edition teaches you to write and deploy games with Unity. As you explore the many interesting examples, you'll get hands-on practice with Unity's intuitive workflow tools and state-of-the-art rendering engine. This practical guide exposes every aspect of the game dev process, from the initial groundwork to creating custom AI scripts and building easy-to-read UIs. And because you asked for it, this totally revised Second Edition includes a new chapter on building 2D platformers with Unity's expanded 2D toolkit. What's Inside Revised for new best practices, updates, and more! 2D and 3D games Characters that run, jump, and bump into things Connect your games to the internet About the Reader You need to know C# or a similar language. No game development knowledge is assumed. About the Author Joe Hocking is a software engineer and Unity expert specializing in interactive media development. Table of Contents PART 1 - First steps Getting to know Unity Building a demo that puts you in 3D space Adding enemies and projectiles to the 3D game Developing graphics for your game PART 2 - Getting comfortable Building a Memory game using Unity's 2D functionality Creating a basic 2D Platformer Putting a GUI onto a game Creating a third-person 3D game: player movement and animation Adding interactive devices and items within the game PART 3 - Strong finish Connecting your game to the internet Playing audio: sound effects and music Putting the parts together into a complete game Deploying your game to players' devices