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Advanced Game Design with HTML5 and JavaScript

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Advanced Game Design with HTML5 and JavaScript Rex van der Spuy, 2015-05-13 How do you make a video game? Advanced Game Design with HTML5 and JavaScript is a down to earth education in how to make video games from scratch using the powerful HTML5 and JavaScript technologies. This book is a point by point round up of all the essential techniques that every game designer needs to know. You'll discover how to create and render game graphics, add interactivity, sound, and animation. You'll learn how to build your own custom game engine with reusable components so that you can quickly develop games with maximum impact and minimum code. You'll also learn the secrets of vector math and advanced collision detection techniques, all of which are covered in a friendly and non-technical manner. You'll find detailed working examples with hundreds of illustrations and thousands of lines of source code that you can freely adapt for your own projects. All the math and programming techniques are elaborately explained, and examples are open ended to encourage you to think of original ways to use these techniques in your own games. You can use what you learn in this book to make games for desktops, mobile phones, tablets, or the Web. Advanced Game Design with HTML5 and JavaScript is a great next step for experienced programmers or ambitious beginners who already have some JavaScript experience and want to jump head first into the world of video game development. It's also a great follow up book for readers of *Foundation Game Design with HTML5 and JavaScript* by the same author who want to add depth and precision to their skills. The game examples in this book use pure JavaScript so you can code as close to the metal as possible without having to be dependent on any limiting frameworks or game engines. No libraries, no dependencies, no third party plugins, just you, your computer, and the code. If you're looking for a book to take your game design skills into the stratosphere and beyond, this is it.

The Advanced Game Developer's Toolkit Rex van der Spuy, 2017-07-04 Master the most important skills and techniques you need to know for professional HTML5 and JavaScript 2D game development. This book delves into many of the great classic techniques of video game design. You'll discover how to develop games and game levels using Tiled Editor, how to implement tile-based collision, how to design advanced pathfinding and enemy AI systems, the fundamentals of broad phase collision, and how to make isometric games. All the techniques and supporting code are explained in an easy to understand manner and written in a general way so that they can be applied to any game engine or technology that you're comfortable using. You'll find detailed working examples with dozens of illustrations and many concepts you can freely apply to your own projects. All the math and programming techniques are elaborately explained, and examples are open ended to encourage you to think of original ways to use these techniques in your own games. You can use what you learn in this book as the basis for making games for desktops, mobile phones, tablets, or the Web. The Advanced Game Developer's Toolkit is a great next step if you already have some JavaScript game making experience, or a great continuation if you've already read *Advanced Game Design with HTML5 and JavaScript* by the same author. What You'll Learn: Work with advanced tile-based design techniques for puzzle platform

and maze games Use Tiled Editor to build game worlds Build path finding and AI systems using Line of Sight and A A Star Make isometric games Manage complexity to build games of any size that scale seamlessly Who This Book Is For Video game developers with some experience who want to learn the essential techniques they need to know to take their skills to the next level and for readers who want to understand and fine tune every line of code they write without resorting to quick fixes

Foundation Game Design with HTML5 and JavaScript Rex van der Spuy, 2013-01-28 Foundation Game Design with HTML5 and JavaScript teaches you everything you need to know about how to make video games If you've never done any programming before and don't know where to start this book will show you how to make games from start to finish You'll learn all the latest programming technologies HTML5 CSS and JavaScript to create your games All written in a fun and friendly style with open ended projects that encourage you to build your own original games Foundation Game Design with HTML5 and JavaScript starts by showing you how you can use basic programming to create logic games adventure games and create interactive game graphics Design a game character learn to control it with the keyboard mouse or touch screen interface and then learn how to use collision detection to build an interactive game world You'll learn to make maze games platform jumping games and fast paced action games that cover all the popular genres of 2D gaming Create intelligent enemies use realistic physics sound effects and music and learn how to animate game characters Whether you're creating games for the web or mobile devices everything you need to get started on a career as a game designer is right here Focused and friendly introduction to making games with HTML5 Essential programming and graphic design techniques for building games with each chapter gently building on the skills of preceding chapters Detailed case studies demonstrating techniques that can be used for making games in a wide variety of genres

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Computer Vision and Graphics Leszek J. Chmielewski, Amitava Datta, Ryszard Kozera, Konrad Wojciechowski, 2016-09-09 This book constitutes the refereed proceedings of the International Conference on Computer Vision and Graphic ICCVG 2016 held in Warsaw Poland in September 2016 The 68 full papers presented were carefully reviewed and selected from various submissions They show various opportunities for valuable

research at the border of applied information sciences agribusiness veterinary medicine and the broadly understood domains of biology and economy

HTML5 Games Jacob Seidelin, 2014-03-10 HTML5 Games shows you how to combine HTML5 CSS3 and JavaScript to make games for the web and mobile games that were previously only possible with plugin technologies like Flash Using the latest open web technologies you are guided through the process of creating a game from scratch using Canvas HTML5 Audio WebGL and WebSockets Inside Jacob Seidelin shows you how features available in HTML5 can be used to create games First you will build a framework on which you will create your HTML5 game Then each chapter covers a new aspect of the game including user input sound multiplayer functionality 2D and 3D graphics and more By the end of the book you will have created a fully functional game that can be played in any compatible browser or on any mobile device that supports HTML5 Topics include Dealing with backwards compatibility Generating level data Making iOS and Android web apps Taking your game offline Using Web Workers Persistent Game Data Drawing with Canvas Capturing player input Creating 3D graphics with WebGL Textures and lighting Sound with HTML5 Audio And more

HTML5 Game Development by Example: Beginner's Guide Makzan, 2015-06-26 HTML5 is a markup language used to structure and present content for the World Wide Web and is a core technology of the Internet It is supported across different platforms and is also supported by various browsers Its innovative features such as canvas audio and video elements make it an excellent game building tool HTML5 Game Development by Example Beginner's Guide Second Edition is a step by step tutorial that will help you create several games from scratch with useful examples Starting with an introduction to HTML5 the chapters of this book help you gain a better understanding of the various concepts and features of HTML5 By the end of the book you will have the knowledge skills and level of understanding you need to efficiently develop games over the network using HTML5

HTML5 Game Programming with Enchant.js Ryohei Fushimi, Hidekazu Furukawa, Brandon McInnis, Ryo Tanaka, Kevin Kratzer, 2013-05-30 HTML5 Game Programming with enchant.js gives first time programmers of all ages the tools to turn their video game ideas into reality A step by step guide to the free open source HTML5 and JavaScript engine enchant.js it is ideally suited for game fans who have always wanted to make their own game but didn't know how It begins with the foundations of game programming and goes on to introduce advanced topics like 3D We live in an age where smartphones and tablets have made games more ubiquitous than ever Based around HTML5 enchant.js is ideally suited for aspiring game programmers who have always been intimidated by code Games written using enchant.js take only a few hours to write and can be played in a browser iOS and Android devices removing the stress of programming to focus on the fun Discover the joy of game development with enchant.js Provides a comprehensive easy guide to game programming through enchant.js Gives aspiring game developers a tool to realize their ideas Introduces readers to the basics of HTML5 and JavaScript programming What you will learn Master the basics of HTML5 and JavaScript programming Create a game that can be played on a desktop iOS or Android Upload your game to 9leap.net where you can share it easily Program your own 3D games Grasp

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