

Where To Download 3d Game Programming For Kids Create Interactive Worlds With Javascript

3d Game Programming For Kids Create Interactive Worlds With Javascript

Scratch 3.0 has landed! Stay ahead of the curve with this fully updated guide for beginner coders. Coding is not only a highly sought-after skill in our digital world, but it also teaches kids valuable skills for life after school. This book teaches important strategies for solving problems, designing projects, and

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communicating ideas, all while creating games to play with their friends. Children will enjoy the step-by-step visual approach that makes even the most difficult coding concepts easy to master. They will discover the fundamentals of computer programming and learn to code through a blend of coding theory and the practical task of building computer games themselves. The reason coding theory is taught through practical tasks is so that young programmers don't just learn how computer code works - they learn why it's

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done that way. With Coding Games in Scratch, kids can build single and multiplayer platform games, create puzzles and memory games, race through mazes, add animation, and more. It also supports STEM education initiatives and the maker movement. Follow Simple Steps - Improve Your Skills - Share Your Games! If you like playing computer games, why not create your own? Essential coding concepts are explained using eight build-along game projects. Coding Games In Scratch guides young coders step-by-step, using visual

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samples, easy-to-follow instructions, and fun pixel art. This coding book for kids has everything you need to build amazing Scratch 3.0 games, including thrilling racing challenges, zany platform games, and fiendish puzzles. Follow the simple steps to become an expert coder using the latest version of the popular programming language Scratch 3.0 in this new edition. Improve your coding skills and create your own games before remixing and customizing them. Share your games online and challenge friends and family to beat each

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other's scores! In this book, you will: - Learn about setting the scene, what makes a good game and playability - Discover objects, rules, and goals - Explore hacks and tweaks, camera angles, fine-tuning and controls - And much more Computer coding teaches kids how to think creatively, work collaboratively, and reason systematically, and is quickly becoming a necessary and sought-after skill. DK's computer coding books for kids are full of fun exercises with step-by-step guidance, making them the perfect introductory tools

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for building vital skills in computer programming. Add Coding Projects in Scratch and Coding Projects in Python to your collection.

A technology book for kids! Do you want to create 3D digital games that'll impress your friends, family, and even yourself? This book shows you how to use Alice, a free 3D game programming environment, to make seriously cool video games you'll have as much fun building as you will playing! Create your own adventure—recreate your favorite story by

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giving the characters new choices and writing your own ending When zombies attack—make your very own escape room maze and attempt to defeat the enemy before it defeats you Technology Requirements:

Hardware – PC or tablet with internet connection running Windows® 7 or higher or Mac with internet connection running Mac OS X® 10.7 or higher Software – Alice—a free programming platform that can be downloaded at alice.org.

The Ruby programming language is perfect for beginners: easy to learn, powerful,

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and fun to use! But wouldn't it be more fun if you were learning with the help of some wizards and dragons? Ruby Wizardry is a playful, illustrated tale that will teach you how to program in Ruby by taking you on a fantastical journey. As you follow the adventures of young heroes Ruben and Scarlet, you'll learn real programming skills, like how to: –Use fundamental concepts like variables, symbols, arrays, and strings –Work with Ruby hashes to create a programmable breakfast menu –Control program flow with

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loops and conditionals to help the Royal Plumber –Test your wild and crazy ideas in IRB and save your programs as scripts –Create a class of mini-wizards, each with their own superpower! –Organize and reuse your code with methods and lists –Write your own amazing interactive stories using Ruby Along the way, you’ll meet colorful characters from around the kingdom, like the hacker Queen, the Off-White Knight, and Wherefore the minstrel. Ruby Wizardry will have you (or your little wizard) hooked on programming in no time. For ages

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10+ (and their parents!)

Explains the process programmers use to create a video game, including key concepts such as game mechanics and user interfaces. Easy-to-read text, informative sidebars, and helpful diagrams make this book an engaging read for avid technology fans and readers who are new to computer coding.

Invent Your Own Computer Games with Python will teach you how to make computer games using the popular Python programming language—even if you've never programmed

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before! Begin by building classic games like Hangman, Guess the Number, and Tic-Tac-Toe, and then work your way up to more advanced games, like a text-based treasure hunting game and an animated collision-dodging game with sound effects. Along the way, you'll learn key programming and math concepts that will help you take your game programming to the next level. Learn how to: -Combine loops, variables, and flow control statements into real working programs -Choose the right data structures for the job, such as lists, dictionaries,

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and tuples –Add graphics and animation to your games with the pygame module –Handle keyboard and mouse input –Program simple artificial intelligence so you can play against the computer –Use cryptography to convert text messages into secret code –Debug your programs and find common errors As you work through each game, you’ll build a solid foundation in Python and an understanding of computer science fundamentals. What new game will you create with the power of Python? The projects in this book are compatible with

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Python 3.

Dart for Hipsters

From Journeyman to Master

A Visual Introduction to Programming with Games, Art, Science, and Math

Building 3D Digital Games

Learn to Program by Making Cool Games

Takes programmers through the complete process of developing a professional quality game, covering a range of topics such as the key "gotcha" issues that could trip up even a veteran programmer, game interface design, game audio, and game

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engine technolog

Python is a powerful, expressive programming language that 's easy to learn and fun to use! But books about learning to program in Python can be kind of dull, gray, and boring, and that 's no fun for anyone. Python for Kids brings Python to life and brings you (and your parents) into the world of programming. The ever-patient Jason R. Briggs will guide you through the basics as you experiment with unique (and often hilarious) example programs that feature ravenous monsters, secret agents, thieving ravens, and more. New terms are defined; code is colored, dissected, and explained;

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and quirky, full-color illustrations keep things on the lighter side. Chapters end with programming puzzles designed to stretch your brain and strengthen your understanding. By the end of the book you ' ll have programmed two complete games: a clone of the famous Pong and "Mr. Stick Man Races for the Exit"—a platform game with jumps, animation, and much more. As you strike out on your programming adventure, you ' ll learn how to:

- Use fundamental data structures like lists, tuples, and maps
- Organize and reuse your code with functions and modules
- Use control structures like loops and conditional statements
- Draw shapes and

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patterns with Python ' s turtle module – Create games, animations, and other graphical wonders with tkinter Why should serious adults have all the fun? Python for Kids is your ticket into the amazing world of computer programming. For kids ages 10+ (and their parents) The code in this book runs on almost anything: Windows, Mac, Linux, even an OLPC laptop or Raspberry Pi!

Create high-performance, visually stunning 3D applications for the Web, using HTML5 and related technologies such as CSS3 and WebGL—the emerging web graphics standard. With this book, you ' ll learn how to use the tools, frameworks, and

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libraries for building 3D models and animations, mind-blowing visual effects, and advanced user interaction in both desktop and mobile browsers. In two parts—Foundations and Application Development Techniques—author Tony Parisi provides a thorough grounding in theory and practice for designing everything from a simple 3D product viewer to immersive games and interactive training systems. Ideal for developers with Javascript and HTML experience. Explore HTML5 APIs and related technologies for creating 3D web graphics, including WebGL, Canvas, and CSS Work with the popular JavaScript 3D rendering and

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animation libraries Three.js and Tween.js Delve into the 3D content creation pipeline, and the modeling and animation tools for creating killer 3D content Look into several game engines and frameworks for building 3D applications, including the author ' s Vizi framework Create 3D environments with multiple objects and complex interaction, using examples and supporting code Examine the issues involved in building WebGL-based 3D applications for mobile browsers

It's easier to learn how to program a computer than it has ever been before. Now everyone can learn to write programs for themselves - no previous

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experience is necessary. Chris Pine takes a thorough, but lighthearted approach that teaches you the fundamentals of computer programming, with a minimum of fuss or bother. Whether you are interested in a new hobby or a new career, this book is your doorway into the world of programming. Computers are everywhere, and being able to program them is more important than it has ever been. But since most books on programming are written for other programmers, it can be hard to break in. At least it used to be. Chris Pine will teach you how to program. You'll learn to use your computer better, to get it to do

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what you want it to do. Starting with small, simple one-line programs to calculate your age in seconds, you'll see how to write interactive programs, to use APIs to fetch live data from the internet, to rename your photos from your digital camera, and more. You'll learn the same technology used to drive modern dynamic websites and large, professional applications. Whether you are looking for a fun new hobby or are interested in entering the tech world as a professional, this book gives you a solid foundation in programming. Chris teaches the basics, but also shows you how to think like a programmer. You'll learn through tons of examples,

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and through programming challenges throughout the book. When you finish, you'll know how and where to learn more - you'll be on your way. What You Need: All you need to learn how to program is a computer (Windows, macOS, or Linux) and an internet connection. Chris Pine will lead you through setting set up with the software you will need to start writing programs of your own.

This book provides readers with an introductory resource for learning how to create compelling games using the open source Python programming language and Pygame games development library. Authored by industry veteran and Python expert

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Will McGugan, readers are treated to a comprehensive, practical introduction to games development using these popular technologies. They can also capitalize upon numerous tips and tricks the author has accumulated over his career creating games for some of the world's largest gaming developers.

Design and Program 3D Games

Computer Coding for Kids

A Step-by-step Guide

Creating Games in C++

Create Interactive Worlds with JavaScript

Learn to Program with Scratch

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Utilizes a hands-on approach to the fundamental principles and techniques of game programming, covering such topics as graphics, Blitz Basic Language, audio, and special effects as it takes readers step-by-step through the process of creating a simple game.

Do you love video games? Ever wondered if you could create one of your own, with all the bells and whistles? It's not as complicated as you'd think, and you don't need to be a math whiz or a programming genius to do it. In fact, everything you

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need to create your first game, "Invasion of the Slugwroths," is included in this book and CD-ROM. Author David Conger starts at square one, introducing the tools of the trade and all the basic concepts for getting started programming with C++, the language that powers most current commercial games. Plus, he's put a wealth of top-notch (and free) tools on the CD-ROM, including the Dev-C++ compiler, linker, and debugger--and his own LlamaWorks2D game engine. Step-by-step instructions and ample illustrations take

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you through game program structure, integrating sound and music into games, floating-point math, C++ arrays, and much more. Using the sample programs and the source code to run them, you can follow along as you learn. Bio: David Conger has been programming professionally for over 23 years. Along with countless custom business applications, he has written several PC and online games. Conger also worked on graphics firmware for military aircraft, and taught computer science at the university level for four years.

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Conger has written numerous books on C, C++, and other computer-related topics. He lives in western Washington State and has also published a collection of Indian folk tales.

Printed in full color. You know what's even better than playing games? Creating your own. Even if you're an absolute beginner, this book will teach you how to make your own online games with interactive examples. You'll learn programming using nothing more than a browser, and see cool, 3D results as you

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type. You'll learn real-world programming skills in a real programming language: JavaScript, the language of the web. You'll be amazed at what you can do as you build interactive worlds and fun games. You'll jump right in and write games and simulations while learning programming fundamentals. You'll use the ICE Code Editor, which was created especially for this book to make it easy for you to get started with JavaScript programming. With the ICE Editor, you'll see the results of your work right away. Want a red donut?

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You can make hundreds of them, spinning around like crazy right next to the code you just typed. You'll do hands-on coding in every chapter. You'll start by building simple animated shapes, then make your own player--who can do cartwheels! You'll learn how to build your own games from start to finish, including a monster eating fruit, a cave puzzle, and rafting on a river. You'll animate simple shapes to create a model of the solar system, and make your own website so that you can show off your games with your friends. If you

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just want to make games, jump to the lessons focusing on projects. To understand some of the theory better or if you need some help with functions, turn to the chapters that explain the programming concepts. We'll walk you carefully through all the math needed to bring games to life. Best of all, you get to create awesome games and say, "I made this!" Don't just play computer games - help children build them with your own home computer! Calling all coders, this is a straightforward, visual guide to helping

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kids understand the basics of computer coding using Scratch and Python coding languages. Essential coding concepts like scripts, variables, and strings are explained using build-along projects and games. Kids can create online games to play like Monkey Mayhem and Bubble Blaster, draw mazes and shapes, build animations, and more using the step-by-step examples to follow and customize. Seven projects let kids (and their parents) practice the skills as they are learning in each section of the book. Kids

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get instant results, even when completely new to coding. Packed with visual examples, expert tips, a glossary of key terms, and extras such as profiles of famous coders, Help Your Kids with Computer Coding lays a hands-on foundation for computer programming, so adults and kids can learn together. Supporting STEM education initiatives, computer coding teaches kids how to think creatively, work collaboratively, and reason systematically, and is quickly becoming a necessary and sought-after skill. DK's

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computer coding books are full of fun exercises with step-by-step guidance, making them the perfect introductory tools for building vital skills in computer programming. User note: At home, all you need is a desktop or laptop with Adobe 10.2 or later, and an internet connection to download Scratch 2.0 and Python 3. Coding with Scratch can be done without download on <https://scratch.mit.edu>. Series Overview: DK's bestselling Help Your Kids With series contains crystal-clear visual breakdowns of important

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subjects. Simple graphics and jargon-free text are key to making this series a user-friendly resource for frustrated parents who want to help their children get the most out of school.

How could a smarter backpack make life easier for the kids in your school? Great inventors use a process called design thinking to help them identify problems, big and small, and create solutions for them. This book introduces readers to design thinking and asks them to look at their backpack (the pros and cons of it)

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in a specific way to figure out how to improve it. Design thinking fosters innovation, creativity, and even empathy--essential learning for students. Book includes table of contents, glossary of key words, index, author biography, sidebars, infographics, and instructions. Game Programming for Teens

A unique step-by-step visual guide, from binary code to building games

Nintendo Video Game Designer Shigeru Miyamoto

3D Animation and Visualization for Web

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Pages

3D Game Programming for Kids

Coding for Kids: Programming for

Beginners: How to Learn: Coding Skills,

Create a Game, Programming in Python and

Working with Popular

If you have a working knowledge of JavaScript and ECMAScript 6 (ES6), this practical guide will help you tackle modular programming to produce code that's readable, maintainable, and scalable. You'll learn the fundamentals of modular architecture with JavaScript and the benefits of writing self-contained

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code at every system level, including the client and server. Nicolás Bevacqua, author of Practical Modern JavaScript, demonstrates how to scale out JavaScript applications by breaking codebases into smaller modules. By following the design practices in this book, senior developers, technical leaders, and software architects will learn how to create modules that are simple and flexible while keeping internal complexity in check. Learn modular design essentials, including how your application will be consumed and what belongs on the interface Design module internals to keep your code readable and its

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intent clear Reduce complexity by refactoring code and containing and eliminating state Take advantage of modern JavaScript features to write clear programs and reduce complexity Apply Twelve-Factor App principles to frontend and backend JavaScript application development Learn how to use sensors to control a robot's movements in Mindstorms, from following lines to recognizing obstacles.

Learning Python just got fun for kids! Learning to code is just like playing a new sport or practicing an instrument--just get started! From the basic building

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blocks of programming to creating your very own code, this book teaches essential Python skills to kids ages 10 and up with 50 fun and engaging activities. Master fundamental functions, create code blocks, and draw and move shapes with the turtle module--these interactive lessons offer step-by-step guidance to make computer programming entertaining to future coders. You can even see the results of your coding in real time! With helpful hacks and screenshots for guidance, the only question that Coding for Kids: Python leaves unanswered is: what will you build next? Coding for Kids: Python includes:

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Game-based learning--Kids study coding concepts by putting them into practice with 50 innovative exercises. Creative projects-- Coding for Kids: Python encourages kids to think independently, modify code, and express their creativity with every lesson. Easy-to-follow guidance--Straightforward directions and tips keep coders engaged every step of the way. Give the technologists of tomorrow the gift of fluently coding while having tons of fun with Coding for Kids: Python.

JavaScript is the programming language of the Internet, the secret sauce that makes the Web

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awesome, your favorite sites interactive, and online games fun! JavaScript for Kids is a lighthearted introduction that teaches programming essentials through patient, step-by-step examples paired with funny illustrations. You'll begin with the basics, like working with strings, arrays, and loops, and then move on to more advanced topics, like building interactivity with jQuery and drawing graphics with Canvas. Along the way, you'll write games such as Find the Buried Treasure, Hangman, and Snake. You'll also learn how to: –Create functions to organize and reuse your code –Write and modify

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HTML to create dynamic web pages –Use the DOM and jQuery to make your web pages react to user input –Use the Canvas element to draw and animate graphics –Program real user-controlled games with collision detection and score keeping With visual examples like bouncing balls, animated bees, and racing cars, you can really see what you're programming. Each chapter builds on the last, and programming challenges at the end of each chapter will stretch your brain and inspire your own amazing programs. Make something cool with JavaScript today! Ages 10+ (and their parents!)

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*****55% OFF FOR BOOKSTORES! DISCOUNTED RETAIL PRICE NOW AT \$19,78 INSTEAD OF \$43,95***** Are you interested in coding, but you don't know where to start? This book is entitled *Coding for Kids*, but adults can also use it if they are working on the matter for the first time. Coding can help children to understand the technical world that is all around them. They can understand the internet, smart TVs, and smartphones they can't seem to put down. By understanding how things work, they can also begin to get inspired and think of their own ideas. This book covers the following topics: *What Is Coding*

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*(Introduction) Programming Languages and Ides
What Programming Language Should You Learn?
OOP (Object-Oriented Programming) Preparing
YourSelf for Coding The Future of Machine Learning
.. And so much more! One of the best things about
coding for kids is that the more widespread computer-
use becomes, the more areas of life that are touched
by coding. This means that no matter what you are
interested in, coding can play a role. For example, if
you like music, there are many applications of coding
in the music industry. Coding is even used in sports,
where coaches are using it to help their teams*

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perform better. It seems like no matter what, coding is being used in any area of life that you find interesting and fun. When you can do computer programming that is applied to something that you find interesting, you are going to realize that you enjoy coding and will have so much fun by doing your work.

Learn to Code and Create Your Own Cool Games!

Game Coding Complete

Scratch 3 Programming Playground

Game Programming in C++

Programming Linux Games

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The Pragmatic Programmer

Scratch is a fun, free, beginner-friendly programming environment where you connect blocks of code to build programs. While most famously used to introduce kids to programming, Scratch can make computer science approachable for people of any age. Rather than type countless lines of code in a cryptic programming language, why not use colorful command blocks and cartoon sprites to create powerful scripts? In Learn to Program with Scratch, author Majed Marji

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uses Scratch to explain the concepts essential to solving real-world programming problems. The labeled, color-coded blocks plainly show each logical step in a given script, and with a single click, you can even test any part of your script to check your logic. You'll learn how to:

- Harness the power of repeat loops and recursion**
- Use if/else statements and logical operators to make decisions**
- Store data in variables and lists to use later in your program**
- Read, store, and manipulate user input**
- Implement key computer science**

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algorithms like a linear search and bubble sort Hands-on projects will challenge you to create an Ohm's law simulator, draw intricate patterns, program sprites to mimic line-following robots, create arcade-style games, and more! Each chapter is packed with detailed explanations, annotated illustrations, guided examples, lots of color, and plenty of exercises to help the lessons stick. Learn to Program with Scratch is the perfect place to start your computer science journey, painlessly. Uses Scratch 2

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Program 3D Games in C++: The #1 Language at Top Game Studios Worldwide C++ remains the key language at many leading game development studios. Since it's used throughout their enormous code bases, studios use it to maintain and improve their games, and look for it constantly when hiring new developers. **Game Programming in C++** is a practical, hands-on approach to programming 3D video games in C++. Modeled on Sanjay Madhav's game programming courses at USC, it's fun, easy,

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practical, hands-on, and complete. Step by step, you'll learn to use C++ in all facets of real-world game programming, including 2D and 3D graphics, physics, AI, audio, user interfaces, and much more. You'll hone real-world skills through practical exercises, and deepen your expertise through start-to-finish projects that grow in complexity as you build your skills. Throughout, Madhav pays special attention to demystifying the math that all professional game developers need to know. Set up your C++ development tools quickly,

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and get started Implement basic 2D graphics, game updates, vectors, and game physics Build more intelligent games with widely used AI algorithms Implement 3D graphics with OpenGL, shaders, matrices, and transformations Integrate and mix audio, including 3D positional audio Detect collisions of objects in a 3D environment Efficiently respond to player input Build user interfaces, including Head-Up Displays (HUDs) Improve graphics quality with anisotropic filtering and deferred shading

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Load and save levels and binary game data
Whether you're a working developer or a student with prior knowledge of C++ and data structures, Game Programming in C++ will prepare you to solve real problems with C++ in roles throughout the game development lifecycle. You'll master the language that top studios are hiring for—and that's a proven route to success.

Requiring no prior programming experience, this book teaches kids introductory programming techniques with language that

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they can understand, and uses QB64, a simple version of BASIC.

Rust is an exciting new programming language combining the power of C with memory safety, fearless concurrency, and productivity boosters - and what better way to learn than by making games. Each chapter in this book presents hands-on, practical projects ranging from "Hello, World" to building a full dungeon crawler game. With this book, you'll learn game development skills applicable to other engines, including

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Unity and Unreal. Rust is an exciting programming language combining the power of C with memory safety, fearless concurrency, and productivity boosters. With Rust, you have a shiny new playground where your game ideas can flourish. Each chapter in this book presents hands-on, practical projects that take you on a journey from "Hello, World" to building a full dungeon crawler game. Start by setting up Rust and getting comfortable with your development environment. Learn the language basics with

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practical examples as you make your own version of Flappy Bird. Discover what it takes to randomly generate dungeons and populate them with monsters as you build a complete dungeon crawl game. Run game systems concurrently for high-performance and fast game-play, while retaining the ability to debug your program. Unleash your creativity with magical items, tougher monsters, and intricate dungeon design. Add layered graphics and polish your game with style. What You Need: A computer running Windows

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10, Linux, or Mac OS X. A text editor, such as Visual Studio Code. A video card and drivers capable of running OpenGL 3.2.

Minecraft is more than just a video game. It is a phenomenon that has taken the world by storm. In this book, readers will learn how to use redstone to build advanced Minecraft structures such as automated doors and powered mine carts. Content is presented in a clear and concise way, perfect for the younger hands-on techie. Includes table of contents, glossary, and index--as well as sources for

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further reading.

Introduction to 3D Game Programming with DirectX 12

From Novice to Professional

The Everything Kids' Scratch Coding Book

Creating 3D Games

Ruby Wizardry

Mastering Modular JavaScript

3D Game Programming for Kids Create Interactive Worlds with JavaScript Pragmatic Bookshelf

What others in the trenches say about The Pragmatic Programmer... "The cool thing about this book is

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that it's great for keeping the programming process fresh. The book helps you to continue to grow and clearly comes from people who have been there."

—Kent Beck, author of Extreme Programming

Explained: Embrace Change "I found this book to be a great mix of solid advice and wonderful

analogies!" —Martin Fowler, author of Refactoring

and UML Distilled "I would buy a copy, read it twice, then tell all my colleagues to run out and grab a

copy. This is a book I would never loan because I would worry about it being lost." —Kevin Ruland,

Management Science, MSG-Logistics "The wisdom and practical experience of the authors is obvious.

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The topics presented are relevant and useful.... By far its greatest strength for me has been the outstanding analogies—tracer bullets, broken windows, and the fabulous helicopter-based explanation of the need for orthogonality, especially in a crisis situation. I have little doubt that this book will eventually become an excellent source of useful information for journeymen programmers and expert mentors alike.” —John Lakos, author of Large-Scale C++ Software Design “This is the sort of book I will buy a dozen copies of when it comes out so I can give it to my clients.” —Eric Vought, Software Engineer “Most modern books on software

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development fail to cover the basics of what makes a great software developer, instead spending their time on syntax or technology where in reality the greatest leverage possible for any software team is in having talented developers who really know their craft well. An excellent book.” —Pete McBreen, Independent Consultant “Since reading this book, I have implemented many of the practical suggestions and tips it contains. Across the board, they have saved my company time and money while helping me get my job done quicker! This should be a desktop reference for everyone who works with code for a living.” —Jared Richardson, Senior Software

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Developer, iRenaissance, Inc. “I would like to see this issued to every new employee at my company....” —Chris Cleeland, Senior Software Engineer, Object Computing, Inc. “If I’m putting together a project, it’s the authors of this book that I want. . . . And failing that I’d settle for people who’ve read their book.” —Ward Cunningham Straight from the programming trenches, The Pragmatic Programmer cuts through the increasing specialization and technicalities of modern software development to examine the core process--taking a requirement and producing working, maintainable code that delights its users. It covers topics ranging

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from personal responsibility and career development to architectural techniques for keeping your code flexible and easy to adapt and reuse. Read this book, and you'll learn how to Fight software rot; Avoid the trap of duplicating knowledge; Write flexible, dynamic, and adaptable code; Avoid programming by coincidence; Bullet-proof your code with contracts, assertions, and exceptions; Capture real requirements; Test ruthlessly and effectively; Delight your users; Build teams of pragmatic programmers; and Make your developments more precise with automation. Written as a series of self-contained sections and filled with entertaining anecdotes,

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thoughtful examples, and interesting analogies, The Pragmatic Programmer illustrates the best practices and major pitfalls of many different aspects of software development. Whether you're a new coder, an experienced programmer, or a manager responsible for software projects, use these lessons daily, and you'll quickly see improvements in personal productivity, accuracy, and job satisfaction. You'll learn skills and develop habits and attitudes that form the foundation for long-term success in your career. You'll become a Pragmatic Programmer. Explains how to build a scrolling game engine, play sound effects, manage compressed audio streams,

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build multiplayer games, construct installation scripts, and distribute games to the Linux community.

From coding languages and hardware to cyberbullying and gaming, this comprehensive homework helper for kids and parents covers the essentials of computer science. This unique visual study guide examines the technical aspects of computers, such as how they function, the latest digital devices and software, and how the Internet works. It also builds the confidence of parents and kids when facing challenges such as staying safe online, digital etiquette, and how to navigate the

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potential pitfalls of social media. Jargon-free language helps to explain difficult and potentially dread-inducing homework such as hacking, "big data" and malware, while colorful graphics help makes learning about the world of computer science exciting. Whether at home or school, this clear and helpful guide to computer science is the tool you need to be able to support students with confidence. Series Overview: DK's bestselling Help Your Kids With series contains crystal-clear visual breakdowns of important subjects. Simple graphics and jargon-free text are key to making this series a user-friendly resource for frustrated parents who want to help

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their children get the most out of school.

Audisee® eBooks with Audio combine professional narration and sentence highlighting for an engaging read aloud experience! You might think that working in the video game industry is all fun and, well...games. Jobs like combat designer and animator sound pretty exciting. But do you know what it really takes to do one of these jobs? Do you have the skills? The knowledge? Are you ready to work hard? Game designers create the images, sounds, and action that gamers enjoy. Find out if you can handle a job in this fast-paced industry.

Introduction to Computer Programming

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Packed with Flaps and Lots More to Help you Code without a Computer!

Learn to Code with 50 Awesome Games and Activities

The Crazy Careers of Video Game Designers

Coding Games in Scratch

Hands-on Rust

This updated bestseller provides an introduction to programming interactive computer graphics, with an emphasis on game development using DirectX 12. The book is divided into three main parts: basic mathematical tools, fundamental tasks in Direct3D, and techniques and special effects. It shows how to use new Direct12 features such as command lists,

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pipeline state objects, descriptor heaps and tables, and explicit resource management to reduce CPU overhead and increase scalability across multiple CPU cores. The book covers modern special effects and techniques such as hardware tessellation, writing compute shaders, ambient occlusion, reflections, normal and displacement mapping, shadow rendering, and character animation. Includes a companion DVD with code and figures. eBook Customers: Companion files are available for downloading with order number /proof of purchase by writing to the publisher at info@merclearning.com. FEATURES: • Provides an introduction to programming interactive computer graphics, with an emphasis on game development using DirectX 12 •

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Uses new Direct3D 12 features to reduce CPU overhead and take advantage of multiple CPU cores • Contains detailed explanations of popular real-time game effects • Includes a DVD with source code and all the images (including 4-color) from the book • Learn advance rendering techniques such as ambient occlusion, real-time reflections, normal and displacement mapping, shadow rendering, programming the geometry shader, and character animation • Covers a mathematics review and 3D rendering fundamentals such as lighting, texturing, blending and stenciling • Use the end-of-chapter exercises to test understanding and provide experience with DirectX 12

A project-filled introduction to coding that shows kids how to

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build programs by making cool games. Scratch, the colorful drag-and-drop programming language, is used by millions of first-time learners worldwide. Scratch 3 features an updated interface, new programming blocks, and the ability to run on tablets and smartphones, so you can learn how to code on the go. In Scratch 3 Programming Playground, you'll learn to code by making cool games. Get ready to destroy asteroids, shoot hoops, and slice and dice fruit! Each game includes easy-to-follow instructions with full-color images, review questions, and creative coding challenges to make the game your own. Want to add more levels or a cheat code? No problem, just write some code. You'll learn to make games like:

- Maze Runner: escape the maze!
- Snaaaaaake: gobble apples and

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avoid your own tail • Asteroid Breaker: smash space rocks • Fruit Slicer: a Fruit Ninja clone • Brick Breaker: a remake of Breakout, the brick-breaking classic • Platformer: a game inspired by Super Mario Bros Learning how to program shouldn't be dry and dreary. With Scratch 3 Programming Playground, you'll make a game of it! Covers: Scratch 3 Have you ever played Super Mario Brothers, Donkey Kong, or The Legend of Zelda? Learn about Shigeru Miyamoto, the Japanese designer who created these famous games. You know what's even better than playing games? Programming your own! Make your own online games, even if you're an absolute beginner. Let your imagination come to 3D life as you learn real-world programming skills with the

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JavaScript programming language - the language used everywhere on the web. This new edition is completely revised, and takes advantage of new programming features to make game programming even easier to learn. Plus, new effects make your games even cooler. When you're done, you're going to be amazed at what you can create. Jump right in! Start programming cool stuff on page 1. Keep building new and different things until the very last page. This book wants you to play. Not just play games, but play with code. Play with programming. Because the best way to learn something is to have fun with it! This second edition is updated from start to finish to make it even easier to get started programming in JavaScript. Every example has been updated to make it easier,

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with new example games to explore and new 3D effects that make your games even more fun! Want a red donut? You can make hundreds of them, spinning around like mad. Want to create a star field? Make a hundred or a thousand stars. Make them red, green, or blue. Explosions? Fireworks? Planets? It's up to you. And, using a code editor created especially for this book, you'll program right in your web browser. You'll see the results of your work and imagination right away - right next to the code that you just typed! Along the way, you'll pick up a ton of programming knowledge, and dive in even deeper with some more advanced chapters. Whatever you want to do, this book has your back. Best of all, you get to create awesome games and say, "I made this!"

What You Need: You need the

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latest version of the Google Chrome Web browser, available for free from <https://chrome.google.com>. You also need an Internet connection to access the ICE Code Editor the first time. ICE Code Editor will be loaded onto your computer, so you won't need Internet access for later projects.

You know what's even better than playing games?

Programming your own! Make your own online games, even if you're an absolute beginner. Let your imagination come to 3D life as you learn real-world programming skills with the JavaScript programming language - the language used everywhere on the web. This new edition is completely revised, and takes advantage of new programming features to make game programming even easier to learn. Plus, new effects

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make your games even cooler. When you're done, you're going to be amazed at what you can create. Jump right in! Start programming cool stuff on page 1. Keep building new and different things until the very last page. This book wants you to play. Not just play games, but play with code. Play with programming. Because the best way to learn something is to have fun with it! This second edition is updated from start to finish to make it even easier to get started programming in JavaScript. Every example has been updated to make it easier, with new example games to explore and new 3D effects that make your games even more fun! Want a red donut? You can make hundreds of them, spinning around like mad. Want to create a star field? Make a hundred or a thousand stars. Make

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them red, green, or blue. Explosions? Fireworks? Planets? It's up to you. And, using a code editor created especially for this book, you'll program right in your web browser. You'll see the results of your work and imagination right away - right next to the code that you just typed! Along the way, you'll pick up a ton of programming knowledge, and dive in even deeper with some more advanced chapters. Whatever you want to do, this book has your back. Best of all, you get to create awesome games and say, "I made this!"

What You Need: You need the latest version of the Google Chrome Web browser, available for free from <https://chrome.google.com> . You also need an Internet connection to access the ICE Code Editor the first time. ICE Code Editor will be loaded onto your computer, so

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you won't need Internet access for later projects.

Help Your Kids with Computer Science (Key Stages 1-5)

An Introduction to Programming for Kids

Understanding Coding by Building Algorithms

My First Coding Book

3D Game Programming for Kids, 2nd Edition

A Playful Introduction To Programming

Dart 1.1 has arrived and Dart for Hipsters has you covered! Every chapter has been painstakingly reviewed and updated to work with the latest version of this exciting new language. The unabashed goal of Dart is to make programming for the Web simpler,

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faster, and more powerful. Dart for Hipsters teaches you the fastest way possible: with real code and real projects starting on page 1. You'll explore the ins and outs of Dart by writing a simple application that grows in complexity from modest beginnings to a separate library that fully leverages the power of Dart. Caution: after reading you may develop an intense attachment to structured code and skinny jeans. In Dart for Hipsters, you follow project-based chapters demonstrating real-world problems solved with Dart. Each project serves as the foundation for deeper discussion of defining features of Dart, such

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as its support for functional programming. As you reinforce your understanding of Dart, you'll move on to more complex projects which, in turn, spur more complex discussions, such as how to maintain Dart and JavaScript side-by-side. By the end of this book, not only will you have a thorough introduction to the language, but you'll also have built an entire MVC library from scratch. You'll jump right in by writing an Ajax-powered application, followed by a more detailed discussion of Dart's basic types. Along the way, Dart for Hipsters shows you how to compile Dart into JavaScript, how to use Dart's simple object-

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oriented programming approach, and how to build well-factored, easily used and maintained libraries. You'll see dynamic features of the language in action, such as injecting different data syncing behaviors for an entire framework with one line of code. Best of all, you'll learn how Dart makes working with HTML5 and similar technologies a breeze. What You Need: You will need Dartium, a preview release of Chrome with the Dart VM built-in. For some of the examples, you need either the dart2js tool or the Dart Editor to compile Dart down into JavaScript.

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You can create your own computer games and programs! No experience needed. Anyone can learn to program computers! This fun guide will show you everything you need to know to: tell a computer what to do; make sounds and music; create moving pictures; save and load; programs; build fun games you can play! Includes seven complete games. Requires free "Mini Micro" software available for Windows, MacOS, and Linux.

Teach kids as young as 5 years old the basic programming skills necessary to code, including sequencing and loops, without a computer. It's never

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too early to learn computer coding. My First Coding Book is a playful introduction to offline coding and programming that will give young children a head start. Filled with puzzles, mazes, and games to teach the basic concepts of sequences, algorithms, and debugging, this book will help children develop critical thinking, logic, and other skills to cement lifelong computer literacy, which is extremely valuable and sought-after in today's world. With its unique approach and colorful and creative imagery, My First Coding Book makes learning and fun one and the same and will have children playing their

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way to programming proficiency. Supporting STEM education initiatives, computer coding teaches kids how to think creatively, work collaboratively, and reason systematically, and is quickly becoming a necessary and sought-after skill. DK's computer coding books are full of fun exercises with step-by-step guidance, making them the perfect introductory tools for building vital skills in computer programming.

Teach kids the concepts of coding in easy-to-understand language and help them develop games of their own with The Everything Kids' Scratch

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Coding Book! Understanding computer science is becoming a necessity in the modern age. As our world shifts towards becoming increasingly more technical and automated, the ability to code and understand computers has become one of the most valuable skills any child can have on the road to a successful life. More and more schools are recognizing this importance and have started to implement computer science and coding as core elements in their curriculums, right alongside math and history. The Everything Kids' Scratch Coding Book helps children get a head start on this new

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essential skill, with Scratch coding—a language designed by MIT specifically to help a younger audience learn to code. In no time, children will learn basic coding concepts, build fun games, and get a competitive edge on their classmates. This book encourages children to think analytically and problem-solve, while helping them develop an essential skill that will last them a lifetime.

This detailed guide explores the historical development of algorithms and how they are used as a way of teaching computers to work through problems. Named for Persian mathematician

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Muhammad ibn Musa al-Khwarizmi, modern algorithms and functions make programming more efficient. Algorithms are simplified for readers using words, flowcharts, and pseudo code to build a beginning understanding of algorithms and how they are used in our modern, computerized world. Young coders and STEM students are sure to strengthen their technical skills with an in-depth and fun exploration of this essential coding topic.

Beginning Game Development with Python and Pygame

Coding for Kids - Python

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Video Game Coding

A Playful Introduction to Programming

Video Game Programming for Kids

Programming Games and Animation

"Do you know how your favorite video game works?

Computer instructions called code bring the characters, challenges, and stories in the game to life. Discover how games are designed, coded, and tested, then try it out for yourself!"

Redstone and Transportation in Minecraft

A Unique Step-by-Step Visual Guide to Computers, Coding, and Communication

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Learn to Program

For Kids of All Ages

Programming 3D Applications with HTML5 and WebGL

Mindstorms: Level 3