The book was found

Real-Time 3D Rendering With DirectX And HLSL (Book) And DirectX Essentials LiveLessons (Video Training) Bundle





Synopsis

Get Started Quickly with DirectX 3D Programming: No 3D Experience Needed This step-by-step text demystifies modern graphics programming so you can quickly start writing professional code with DirectX and HLSL. Expert graphics instructor Paul Varcholik starts with the basics: a tour of the Direct3D graphics pipeline, a 3D math primer, and an introduction to the best tools and support libraries. Next, youâ ™II discover shader authoring with HLSL. Youâ ™II implement basic lighting models, including ambient lighting, diffuse lighting, and specular highlighting. Youâ ™II write shaders to support point lights, spotlights, environment mapping, fog, color blending, normal mapping, and more. Then youâ ™II employ C++ and the Direct3D API to develop a robust, extensible rendering engine. Youâ ™II learn about virtual cameras, loading and rendering 3D models, mouse and keyboard input, and youâ ™II create a flexible effect and material system to integrate your shaders. Finally, youâ ™II extend your graphics knowledge with more advanced material, including post-processing techniques for color filtering, Gaussian blurring, bloom, and distortion mapping. Youâ ™II develop shaders for casting shadows, work with geometry and tessellation shaders, and implement a complete skeletal animation system for importing and rendering animated models. A You dona ™t need any experience with 3D graphics or the associated math: Everythingâ ™s taught hands-on, and all graphics-specific code is fully explained.Coverage includes The Direct3D API and graphics pipeline A 3D math primer: vectors, matrices, coordinate systems, transformations, and the DirectX Math library Free and low-cost tools for authoring, debugging, and profiling shaders Extensive treatment of HLSL shader authoring Development of a C++ rendering engine Cameras, 3D models, materials, and lighting Post-processing effects Device input, component-based architecture, and software services Shadow mapping, depth maps, and projective texture mapping A Skeletal animation Geometry and tessellation shaders Survey of rendering optimization, global illumination, compute shaders, deferred shading, and data-driven engine architecture 5+ Hours of Video Instruction Real-time graphics programming is often considered a dark art, full of complex mathematics and esoteric tools. Even experienced programmers can find the material difficult to absorb. Furthermore, the rapid pace of advancement makes modern graphics programming a moving target, and establishing a foothold can be difficult. Quality educational material is a necessity for newcomers to the field. DirectX Essentials LiveLessons introduces viewers to graphics programming through a moderately deep-dive into shader programming and the Direct3D API. Dr. Paul Varcholik guides viewers with a practical, hands-on approach to modern DirectX application development. While these videos are geared towards programmers, no prior knowledge of graphics programming or 3D math is required.

The lessons begin with â œHello. World!â • style rendering (drawing a single point and triangle) and extend into introductory lighting models including ambient and diffuse lighting, specular highlights, point lights, and spotlights. The videos also cover texture mapping, environment mapping, normal mapping, and color blending and introduce viewers to 3D math in a straight-forward, stress-free fashion. Skill Level -- All Levels What You Will Learn DirectX 11 API essentials How to write shaders using High Level Shading Language (HLSL) The 3D mathematics behind 3D graphics How to load and render 3D models Mapping textures to 3D objects Ambient and diffuse lighting, specular highlights, point lights, and spotlights Environment mapping, fog, normal mapping, and color blending Survey additional topics in modern rendering, including post processing, shadow mapping, skeletal animation, geometry and tessellation shaders, deferred rendering, global illumination, and compute shaders Who Should Take This Course Developers looking for a practical introduction to 3D rendering and modern Direct3D Course Requirements Familiarity with the C++ programming About LiveLessons Video Training LiveLessons Video Training series publishes hundreds of hands-on, expert-led video tutorials covering a wide selection of technology topics designed to teach you the skills you need to succeed. This professional and personal technology video series features world-leading author instructors published by your trusted technology brands: Addison-Wesley, Cisco Press, IBM Press, Pearson IT Certification, Prentice Hall, Sams, and Que. Topics include: IT Certification, Programming, Web Development, Mobile Development, Home and Office Technologies, Business and Management, and more. View all LiveLessons on InformIT at: http://www.informit.com/livelessons 0134176448 / 9780134176444 Real-Time 3D Rendering with DirectX and HLSL (Book) and DirectX Essentials LiveLessons (Video Training) Bundle A Package consists of: Â Â Â 0134181492 / 9780134181493 DirectX Essentials LiveLessons Access Code Card 0321962729 / 9780321962720 Real-Time 3D Rendering with DirectX and HLSL: A Â Practical Guide to Graphics Programming

Book Information

Misc. Supplies

Publisher: Addison-Wesley Professional; 1 edition (January 25, 2015)

Language: English

ISBN-10: 0134176448

ISBN-13: 978-0134176444

Product Dimensions: 6.9 x 1.2 x 8.9 inches

Shipping Weight: 2.5 pounds

Average Customer Review: Be the first to review this item

Best Sellers Rank: #9,332,193 in Books (See Top 100 in Books) #95 in Books > Computers & Technology > Programming > Graphics & Multimedia > DirectX #236 in Books > Computers & Technology > Graphics & Design > Rendering & Ray Tracing #1328 in Books > Computers & Technology > Graphics & Design > 3D Graphics

Download to continue reading...

Real-Time 3D Rendering with DirectX and HLSL (Book) and DirectX Essentials LiveLessons (Video Training) Bundle Real-Time 3D Rendering with DirectX and HLSL: A Practical Guide to Graphics Programming (Game Design) What is DirectX in Windows: This eBook explains what DirectX is and the utility that manages DirectX in the Windows environment. (PC Technology 9) Puppy Training: How To Train a Puppy: A Step-by-Step Guide to Positive Puppy Training (Dog training, Puppy training, Puppy house training, Puppy training ... your dog, Puppy training books Book 3) Puppy Training: Puppy Training for Beginners: The Complete Puppy Training Guide to Crate Training, Clicker Training, Leash Training, Housebreaking, Nutrition, and More Puppy Training: Step By Step Puppy Training Guide- Unique Tricks Included (puppy training for kids, puppy tricks, puppy potty training, housebreak your dog, obedience training, puppy training books) Real Time Systems and Programming Languages: Ada 95, Real-Time Java and Real-Time C/POSIX (3rd Edition) Real Estate: Learn to Succeed the First Time: Real Estate Basics, Home Buying, Real Estate Investment & House Flipping (Real Estate income, investing, Rental Property) Puppy Training Guide 4th Edition: The Ultimate handbook to train your puppy in obedience, crate training and potty training (Training manual, Puppy Development, ... Training, Tracking, Retrieving, Biting) Puppy Training: 10 Worst Puppy Training Mistakes That Can Ruin Your Dog (And How To Train Them Right) (puppy training, dog training, puppy house breaking, ... training a puppy, how to train your puppy) Puppy Training: The Complete Guide To Housebreak Your Puppy in Just 7 Days: puppy training, dog training, puppy house breaking, puppy housetraining, house ... training, puppy training guide, dog tricks) Puppy Training: The Ultimate Guide to Housebreak Your Puppy in Just 7 Days: puppy training, dog training, puppy house breaking, puppy housetraining, house ... training, puppy training quide, dog tricks) Modern Essentials Bundle - Modern Essentials *7th Edition* a Contemporary Guide to the Therapeutic Use of Essential Oils, an Intro to Modern Essentials, Reference Card, and Aroma Designs Bookmark Real-Time Rendering, Third Edition Brain Games for Dogs: Training, Tricks and Activities for your Dog's Physical and Mental wellness(Dog training, Puppy training, Pet training books, Puppy ... games for dogs, How to train a dog Book 1) PUPPY TRAINING: DOG TRAINING: Crash Course in Training Your Dog in Days, Housebreak and Obedience Puppy

Training Guide Book Real-time Operating Systems (The engineering of real-time embedded systems Book 1) Potty Training In 3 Days: Quick And Easy Guide To Potty Training Your Toddler In As Short As 3 Days (potty training, toddlers, toddler, toilet training) Puppy Training: How to Housebreak Your Puppy In Just 7 Days (puppy training, dog training, puppy house breaking, puppy housetraining, house training a puppy,) Puppy Training: How to Housebreak Your Puppy in Just 7 Days: (Puppy Training, Dog Training, How to Train A Puppy, How To Potty Train A Puppy, How To Train A Dog, Crate Training)

Dmca