

3d animation for the raw beginner using maya

3d Animation For The Raw Beginner Using Maya 3d animation for the raw beginner using maya Embarking on the journey of 3D animation can seem daunting for newcomers, especially with the vast array of tools and techniques available. However, Autodesk Maya stands out as one of the most powerful and versatile software options for aspiring animators. Maya is widely used in the film, gaming, and animation industries due to its robust features, intuitive interface, and extensive capabilities. If you're a beginner eager to dip your toes into the world of 3D animation, starting with Maya can be a rewarding experience, provided you approach it with the right mindset and foundational knowledge. In this comprehensive guide, we'll walk you through the essentials of 3D animation for absolute beginners using Maya. We'll cover the basics of the software, key concepts in 3D animation, step-by-step tutorials, and tips to help you build your skills confidently. Whether you're aiming to create simple animated characters, short clips, or just exploring the art form, this article will serve as your starting point to mastering 3D animation with Maya.

Understanding the Basics of 3D Animation Before diving into Maya, it's vital to grasp some fundamental concepts of 3D animation: What is 3D Animation? 3D animation involves creating movement within a three-dimensional space. It combines modeling (creating objects), rigging (adding bones and joints), and animation (moving objects over time). The end result is a dynamic scene or character that appears lifelike or stylized, depending on your artistic goals.

The 3 Pillars of 3D Animation

- Modeling: Creating 3D objects and characters.
- Rigging: Building a skeleton or structure that allows movement.
- Animation: Bringing models to life by defining their motion over time.

The Role of Maya in 3D Animation Maya offers tools for each of these pillars, making it a comprehensive platform for creating professional-grade animations. Its flexibility allows beginners to experiment and learn at their own pace.

Getting Started with Maya for Beginners

- 1 Installing Maya - Obtain a trial or student version from Autodesk's official website.
- Follow the installation instructions specific to your operating system.
- Launch Maya and familiarize yourself with the interface.

Understanding the Maya Interface

- Viewport: The main window where you view and manipulate your scene.
- Menu

Bar: Contains various tools and options. - Shelf: Quick access to frequently used tools. - Channel Box/Layer Editor: For managing object properties. - Timeline: For controlling animation frames. - Attribute Editor: Detailed properties of selected objects.

Basic Navigation and Controls

- Orbit: Alt + Left Mouse Button to rotate the view.
- Pan: Alt + Middle Mouse Button.
- Zoom: Alt + Right Mouse Button or scroll wheel.

- Practice navigating the scene smoothly to build confidence.

Creating Your First 3D Object Basic Modeling in Maya

- Use simple primitives like cubes, spheres, and cylinders to start.
- To create an object: go to the Create menu > Polygon Primitives.
- Example: Create a basic character or simple object by combining multiple primitives.

Transforming Objects

- Use the Move, Rotate, and Scale tools from the toolbar.
- Shortcut keys: - W: Move - E: Rotate - R: Scale
- Practice transforming objects in the viewport to understand spatial manipulation.

Saving Your Work

- Save your scene regularly: File > Save Scene As.
- Use descriptive filenames to keep track of different versions.

Introduction to Rigging and Animation What is Rigging?

Rigging involves creating a skeleton structure for your model, allowing it to move naturally or stylized. For beginners, simple rigging is sufficient to start experimenting with 3 animation.

Simple Rigging Steps

1. Select your model or object.
2. Use the Joint tool (Skeleton > Create Joints) to build a basic skeleton.
3. Position joints appropriately—think about joints in real life (e.g., elbows, knees).
4. Bind the skeleton to your model: Skin > Bind Skin.

Animating Your First Object

- Select the rigged object.
- Move the timeline to frame 1.
- Use the Move and Rotate tools to pose your model.
- Insert keyframes: select the object, press s to set a keyframe.
- Move to a different frame (e.g., frame 20), change the pose, and press s again.
- Play the animation to see your object move.

Tips for Effective Learning and Practice

Start Simple: Focus on basic shapes and movements before tackling complex models.

Use Tutorials: Follow beginner tutorials available on YouTube, Autodesk's official resources, and online courses.

Practice Regularly: Consistency is key—dedicate time each day or week to practice different techniques.

Learn Shortcuts: Master keyboard shortcuts to speed up your workflow.

Join Communities: Engage with online forums and social media groups for feedback and support.

Recommended Resources for Beginners

- Autodesk Maya Official Tutorials: <https://area.autodesk.com/tutorials/>
- YouTube Channels: FlippedNormals, Maya Learning Channel, CG Geek.
- Online Courses: Udemy, Coursera, Pluralsight offers beginner-friendly Maya courses.
- Books: "Mastering Autodesk Maya" by Todd Palamar.

Common Challenges Faced by Beginners and How to Overcome Them

Understanding the Interface

- Spend time exploring the interface.
- Customize the workspace to suit your

workflow. 4 Learning to Model - Start with simple shapes. - Use reference images for accuracy. - Practice creating basic objects before moving to complex models. Animation Timing and Spacing - Study the principles of animation such as timing, squash and stretch, and easing. - Use reference videos to understand natural movements. Managing Files and Scenes - Keep your files organized. - Save incremental versions to prevent loss of work. Conclusion: Your First Steps into 3D Animation Starting with 3D animation using Maya as a raw beginner might seem overwhelming at first, but with patience and consistent practice, you will gradually build your skills. Focus on understanding the core concepts of modeling, rigging, and animation, and utilize the abundant resources available online. Remember, every professional animator started with simple shapes and basic movements—what matters is your willingness to learn and experiment. By following this guide, you are laying a solid foundation for your 3D animation journey. Keep practicing, seek feedback, and most importantly, enjoy the creative process. With time and dedication, you'll be able to bring your ideas to life in stunning three-dimensional worlds. Happy animating!

Question What are the basic steps to start creating a simple 3D animation in Maya for beginners? Begin by familiarizing yourself with the Maya interface, learn to create and manipulate basic objects, set keyframes for animation, and practice simple movements like bouncing balls or rotating objects to get comfortable with the workflow. Do I need experience in other software to start learning 3D animation in Maya? No, Maya is designed for beginners as well, though having a basic understanding of 3D concepts or experience with other 3D software can be helpful. However, Maya offers plenty of beginner tutorials to get started from scratch. What are some essential tools in Maya that a beginner should learn first? Start with learning how to navigate the viewport, create and modify objects, use keyframes for animation, and understand basic modeling tools like extrude and scale. These form the foundation for more complex animations. How long does it typically take to learn basic 3D animation in Maya? With consistent practice, many beginners can grasp the fundamentals within a few weeks to a couple of months, but mastering more advanced techniques may take longer depending on dedication and practice.

5 Are there free resources or tutorials available for beginners in Maya? Yes, Autodesk offers free beginner tutorials, and there are numerous free tutorials on platforms like YouTube, Udemy, and Coursera that cover basics of Maya and 3D animation for beginners. Is it necessary to learn modeling before starting animation in Maya? While not mandatory, understanding basic modeling helps you create your own assets for animation. Beginners can start by using pre-made models and focus on learning animation principles first. What are some common mistakes beginners

make in 3D animation using Maya? Common mistakes include over-complicating scenes, neglecting the principles of timing and spacing, not using proper keyframe placement, and ignoring the importance of reference and planning. Can I animate characters in Maya if I have no prior art or drawing skills? Absolutely. Maya offers tools for rigging and animation that do not require drawing skills. Focus on understanding the movement and mechanics, and use reference videos to guide your animations. What are the key principles of animation that a beginner should learn in Maya? Fundamental principles include squash and stretch, anticipation, staging, straight ahead and pose-to-pose, follow-through, and timing. Learning these helps create more realistic and appealing animations. How important is rendering in the learning process of 3D animation for beginners? Rendering is important to see your final output, but beginners should focus first on modeling, rigging, and animating. Once comfortable, learning rendering techniques in Maya enhances the presentation of your work. 3D animation for the raw beginner using Maya is an exciting journey into the world of digital artistry, where creativity meets technical skill. Whether you're an aspiring animator, a student, or simply someone fascinated by how animated movies and games are made, diving into 3D animation can seem overwhelming at first. However, with the right approach, patience, and a structured learning path, Maya—a leading software in the industry—can become your best tool for transforming ideas into moving, dynamic visuals. In this comprehensive guide, we'll walk you through the essentials of getting started with 3D animation using Maya, tailored specifically for absolute beginners. From understanding the software interface to creating your first animated scene, we will cover all the foundational steps you need to embark on your animation journey. --- Why Choose Maya for 3D Animation? Before diving into the "how," it's helpful to understand why Maya is a popular choice among professionals and hobbyists alike: - Industry Standard: Used by major studios like Pixar, Disney, and DreamWorks. - Versatility: Supports modeling, rigging, animation, rendering, and more. - Powerful Tools: Offers advanced features for character animation, dynamics, and simulation. - Active Community & Resources: Plenty of tutorials, forums, and learning materials. While Maya can be complex, its extensive capabilities make it a worthwhile investment for those serious about 3D animation. --- 3d Animation For The Raw Beginner Using Maya 6 Getting Started: Setting Up Maya for Beginners 1. Installing Maya - Download the latest version from the official Autodesk website. Students and educators often qualify for free educational licenses. - Follow installation prompts and ensure your system meets the software's hardware requirements. 2. Familiarizing Yourself with the Interface Maya's interface can seem intimidating at first, but

with some exploration, you'll find it intuitive:

- Viewport: Your main workspace where models are displayed and animated.
- Menu Bar: Contains drop-down menus for different functions.
- Shelf: Quick access to common tools and commands.
- Channel Box/Layer Editor: For managing object properties and layers.
- Timeline: Where you control and view animation frames.
- Outliner: Hierarchical view of all objects in your scene. Spend some time clicking around, opening different panels, and customizing your workspace to suit your preferences.

--- Basic Concepts You Must Know

1. 3D Space and Navigation
 - Viewport Navigation: Use the Alt key + mouse buttons to rotate, zoom, and pan.
 - Objects: Everything in Maya is an object with properties like position, rotation, and scale.
2. Modeling Basics
 - Polygonal Modeling: The most common method for creating 3D objects.
 - Primitive Shapes: Start with simple shapes like cubes, spheres, and cylinders.
 - Editing: Use tools like Move, Rotate, and Scale to modify objects.
3. Keyframes and Timeline
 - Keyframes: Markers that record an object's properties at a specific time.
 - Animation Curve: The path between keyframes, defining motion.

--- Creating Your First 3D Model Step-by-Step Guide

1. Start with a Primitive: For example, a simple cube.
2. Modify the Shape:
 - Use the Scale tool to stretch or compress.
 - Use the Vertex, Edge, and Face selection modes to edit geometry.
3. Add Details:
 - Use the Insert Edge Loop tool for adding geometry.
 - Extrude faces to create complex shapes.

Tips for Beginners

- Keep models simple; focus on learning the process.
- Save your work frequently.

--- Rigging: Preparing Your Model for Animation

Rigging involves creating a digital skeleton that allows your model to move:

- Joint Tool: Creates bones for your model.
- Skeleton Hierarchy: Organize joints logically (e.g., arm to hand to fingers).
- Skinning: Bind the mesh to the skeleton so it moves naturally. As a beginner, start with simple rigs—like a basic arm or leg—and gradually explore more complex setups.

--- Animating Your First Scene

1. Setting Up Your Scene
 - Place your model in the viewport.
 - Set the timeline to a manageable range (e.g., 1-24 frames per second).
2. Creating Keyframes
 - Select your object or joint.
 - Move to a specific frame on the timeline.
 - Use the Move, Rotate, or Scale tools to position your object.
 - Press 'S' to set a keyframe. Repeat this process at different frames to create motion.
3. Playing Back Animation
 - Use the playback controls to review your animation.
 - Adjust keyframes as needed for timing and motion.

--- Basic Animation Principles to Practice

- Timing and Spacing: Control the speed of movement.
- Ease In and Ease Out: Make movements more natural by gradually accelerating or decelerating.
- Arcs: Animate objects following curved paths for realistic motion.
- Anticipation: Prepare the viewer for an action with subtle movements beforehand.

Mastering these principles will significantly improve the quality of your 3d Animation For The

Raw Beginner Using Maya 7 animations. --- Rendering Your Scene Rendering transforms your scene into a final image or video: - Lighting: Add lights for realism. - Materials and Textures: Apply colors and surface details. - Render Settings: Choose resolution, quality, and output format. - Render: Use Maya's built-in renderer or connect to external engines like Arnold. Start with simple renders and gradually explore advanced lighting and shading techniques. --- Resources and Next Steps - Tutorials: Autodesk's official tutorials, YouTube channels like Maya Learning Channel. - Community Forums: Polycount, CGSociety, Autodesk Community. - Practice Projects: Animate simple objects like bouncing balls, walk cycles, or character gestures. - Expand Skills: Learn about UV mapping, texturing, dynamics, and special effects. - -- Final Tips for Absolute Beginners - Be patient; learning 3D takes time. - Break projects into small, manageable tasks. - Keep experimenting and don't fear making mistakes. - Remember that every expert was once a beginner. --- Conclusion 3D animation for the raw beginner using Maya is an enriching skill that combines creativity, technical understanding, and persistence. Starting with fundamental concepts like modeling, rigging, and keyframe animation can seem daunting, but with consistent practice and exploration, you'll see your skills develop. Maya's robust toolset empowers you to bring your ideas to life, whether it's a simple bouncing ball or a complex animated character. Embrace the learning process, utilize available resources, and most importantly, enjoy creating your animated world. 3D animation, Maya tutorial, beginner 3D modeling, Maya basics, 3D animation for beginners, Maya for beginners, 3D character animation, Maya beginner guide, simple 3D projects, Maya beginner tutorials

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each chapter of 3d animation for the raw beginner using maya introduces critical aspects of the 3d animation process and presents clear and concise tutorials that link key concepts to practical autodesk maya techniques providing a principles based yet pragmatic approach to 3d animation this first of its kind book describes the process for creating animated projects in a nonmathematical fashion explains why and not just how to apply maya techniques in the real world includes access to a dedicated site 3dbybuzz.com featuring useful videos lessons and updates 3d animation for the raw beginner using maya is an ideal academic textbook as well as a superlative do it yourself training manual when employed as a text it frees the instructor from the painstaking task of developing step by step examples to present maya's complex interface and basic capabilities when used for individual study aspiring animators revel in the book's easy to follow hands on learning style make 3d animation for the raw beginner using maya your book of choice for understanding the essential theory and practice of 3d animation

the maya 4.5 handbook is designed to help you navigate this multifunctional maze of features and master the essential tools needed to produce professional quality projects beginning with complete coverage of the theory and background of the maya paradigm and work flow you'll learn why tools function the way they do and practice with step by step tutorials that teach you where to find commands and how to use them you'll learn how maya organizes its workspace how it thinks of digital space and how to work within that space immediately after you'll dive into the many levels of modeling within maya and then progress to maya's shading methods and animation if you want to harness the power

of maya and make it an efficient tool for your projects this is the place to get started

3d animation for the raw beginner using autodesk maya is a hands on academic textbook as well as a do it yourself training manual for the individual animator this second edition has been completely rewritten to take into account updates to autodesk maya including autodesk s renderer arnold it contains entirely new examples and tutorial lessons all 612 images are in full color the book directs the reader to the parts of maya that must be mastered in order to create complete 3d projects and thus it simplifies the process of taking on maya s vast and intricate interface while giving the reader a firm foundation on which to build future knowledge of maya it also presents brief examples of other popular 3d applications and rendering engines this principles based yet pragmatic book introduces the basic steps of the 3d modeling materials animation lighting and rendering processes presents clear and concise tutorials that link key concepts to practical techniques includes access to a webpage for the book buzzking.com/animationtextbook/animationtextbook.html on this webpage are videos that cover many of the lessons in the book as well as video tutorials that present bonus material not included in the book frees instructors from the painstaking task of developing step by step examples to present maya s complex interface and basic capabilities boasts an easy to follow tutorial based learning style ideal for individual study by aspiring animators and do it yourselfers roger buzz king is a professor emeritus at the university of colorado at boulder where he teaches 3d animation for the computer science department and the alliance for technology learning and society atlas an institute dedicated to the application of technology to the arts buzz is an independent 3d animator who serves on the board of directors of a 3d animation startup buzz has a b a in mathematics from occidental college an m s and ph d in computer science from the university of southern california and an m div from the iliff school of theology key features introduces critical aspects of the 3d animation process presents clear and concise tutorials that link key concepts to practical techniques includes access to a dedicated site 3dbybuzz.com featuring useful videos lessons and updates frees instructors from developing step by step examples to present maya s complex interface and basic boasts an easy to follow hands on learning style ideal for individual study by aspiring animators and do ityourselfers

are you fascinated by the incredible worlds of 3d animation game development and visual effects but feel overwhelmed by the complexity of professional software do you dream of bringing your creative visions to life in three

dimensions yet don't know where to start absolute beginner maya 3d modeling a comprehensive guide to autodesk maya 1 is your definitive first step into the exciting realm of 3d modeling designed specifically for those with no prior experience this essential guide demystifies autodesk maya the industry standard software used across film games and animation breaking down intricate concepts into easy to understand lessons forget frustrating online tutorials and confusing manuals this book provides a structured hands on learning path that builds your skills from the ground up ensuring you grasp each concept before moving to the next you will gain a thorough understanding of the maya interface navigation controls and project management setting a solid foundation for all your future work master foundational 3d modeling techniques including polygonal modeling for precision nurbs for smooth surfaces and subdivision surfaces for organic forms learn to utilize essential maya tools like extrude bevel bridge and merge vertices transforming basic shapes into complex objects discover best practices for creating clean efficient topology crucial for animation texturing and rendering workflows understand the basics of uv mapping enabling you to prepare your models for detailed textures and materials develop practical project based skills through guided exercises building confidence as you create a variety of common 3d assets imagine the profound satisfaction of transforming your artistic ideas into tangible 3d models ready for integration into games cinematic scenes or personal art portfolios this comprehensive guide equips you with not just theoretical knowledge but also the practical marketable skills that are highly sought after in today's digital creative industries you'll not only learn how to use maya's powerful tools but also why certain techniques are preferred fostering a deeper more intuitive understanding of professional 3d modeling principles build a robust foundational skillset that will serve as a launchpad for advanced techniques character modeling and environmental design paving your way to becoming a proficient and sought after 3d artist the world of 3d modeling awaits your creativity stop hesitating and start your journey towards mastering autodesk maya purchase absolute beginner maya 3d modeling a comprehensive guide to autodesk maya 1 today and unlock your full potential your future in 3d starts here with the clearest most comprehensive guide available for absolute beginners

i have seen yesterday i know tomorrow this inscription in tutankhamun's tomb summarizes the fifth beginning here archaeologist robert l kelly explains how the study of our cultural past can predict the future of humanity in an eminently readable style kelly identifies four key pivot points in the six million year history of human development the

emergence of technology culture agriculture and the state in each example the author examines the long term processes that resulted in a definitive no turning back change for the organization of society kelly then looks ahead giving us evidence for what he calls a fifth beginning one that started about ad 1500 some might call it globalization but the author places it in its larger context a five thousand year arms race capitalism s global reach and the cultural effects of a worldwide communication network kelly predicts that the emergent phenomena of this fifth beginning will include the end of war as a viable way to resolve disputes the end of capitalism as we know it the widespread shift toward world citizenship and the rise of forms of cooperation that will end the near sacred status of nation states it s the end of life as we have known it however the author is cautiously optimistic he dwells not on the coming chaos but on humanity s great potential

this is the second installment of my maya mastering the basics series this is a project based tutorial book that teaches all the basics of modeling texturing lighting and animating with autodesk s maya software it is updated to use with the new maya 8 menu s and covers all aspects of a project from start to finish projects include creating a room photo realistic modeling rendering and character creation and animation

if you re just beginning to dive into the world of 3d this is the book for you animation magazine alias academy award winning maya 3d animation and effects software leads the industry in technological innovation film and video artists computer game developers and design professionals rely on maya to create brilliant digital imagery animation and visual effects now you can enter this exciting imaginative world and learn to build render and animate your own digital characters and scenes brought to you by maya press a publishing partnership between sybex and alias introducing maya 6 3d for beginners is the ideal initiation to 3d and maya written explicitly for the maya novice the easy to grasp text offers a practical and fun approach to learning maya s core features clear cut engaging lessons let you try out these features using working files provided on the cd you ll also find an abundance of instructional and inspirational art on the cd and full color insert enter a new dimension get a solid grasp of the core maya and 3d learn to navigate the new maya 6 interface experiment with maya modeling explore the basics of nurbs polygons and subdivision surfaces discover the nuances of shading and texturing try your hand at animation get a feel for maya lighting rendering and dynamics find out how to use maya and photoshop in unison note cd rom dvd and other supplementary materials are

not included as part of ebook file

to the four great calligraphic traditions ancient egyptian east asian islamic and western european is now added a fifth that of the ancient maya long known but little understood maya writing has now largely been deciphered leading to a new understanding of the maya scribes and the society in which they lived this volume is the first to make full use of the latest research and the first to consider maya writing both aesthetically and in terms of its meaning michael d coe begins by examining the origins and character of the script he then explores the world of the scribes and keepers of the holy books decoding their depiction in maya art and describing the mediums in which they worked their tools and techniques

if you re just beginning to dive into the world of 3d this is the book for you animation magazine the academy award winning maya 3d animation and effects software is the first choice of film and video artists game developers and 3d design professionals discover how to build render and animate your own digital models and scenes and begin to develop professional level maya skills with the latest edition of this popular bestseller starting with the basics the book builds from the ground up combining straightforward text with practical examples that make it fun and easy to learn maya s core features while introducing new maya 8 elements such as improved polygon tools and enhanced rendering with mental ray clear cut engaging lessons let you experiment using the wealth of files provided on the cd rom you ll also find an abundance of instructional and inspirational maya creations in the full color insert the accompanying cd roms images movies and scene files let you view material from the book right on your own computer tackle all new rendering and dynamics tutorials and much more the cd includes maya personal learning edition software

get the inside track to landing an enviable job in computer graphics breaking into the wildly creative and fiery 3d effects industry is a tough proposition with so many talented people competing for each alluring job it s imperative that candidates grasp what employers look for and make every attempt to stand out maya press a joint publishing effort between sybex and industry leader alias brings you this definitive and practical guide to help you land that first job or advance your current job in the computer graphics industry getting a job in cg real advice from reel people is rich with candid strategies and priceless insights straight from industry and academic leaders job recruiters and employers

through interviews case studies and sample demo reels on the cd this book teaches you how to discover the myriad job possibilities from the obvious to the obscure identify precisely what tools skills and knowledge employers seek determine your best training options college art school or do it yourself recognize what staffing agencies and in house recruiters are looking for build an extraordinary resume that gets noticed find out where to go to meet the right people and tap into networking opportunities acquire the know how to ace the job interview produce an exceptional and applicable demo reel that will help you land the job emulate the career paths of successful artists this book s companion website 3djobs com serves as a research hub packed with supplementary information and links to vital sources note cd rom dvd and other supplementary materials are not included as part of ebook file

maya s notebook is a startling novel of suspense from new york times bestselling author isabel allende this contemporary coming of age story centers upon maya vidal a remarkable teenager abandoned by her parents maya grew up in a rambling old house in berkeley with her grandmother nini whose formidable strength helped her build a new life after emigrating from chile in 1973 with a young son and her grandfather popo a gentle african american astronomer when popo dies maya goes off the rails along with a circle of girlfriends known as the vampires she turns to drugs alcohol and petty crime a downward spiral that eventually leads to las vegas and a dangerous underworld with maya caught between warring forces a gang of assassins the police the fbi and interpol her one chance for survival is nini who helps her escape to a remote island off the coast of chile in the care of her grandmother s old friend manuel arias and surrounded by strange new acquaintances maya begins to record her story in her notebook as she tries to make sense of her past and unravel the mysteries of her family and her own life

this text begins with a summary of the history of the subject and then provides an overview of the objectives and processes of archaeological research and the basic principles of culture context and dating methods

a guide to podcasting covers such topics as designing a podcast setting up a studio recording a podcast editing techniques distributing a podcast and promoting a podcast

by a bengali woman and scholar study of texts and the role of kali within indian culture excellent pre reviews astrong

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alias wavefront s maya is the premier tool for 3d modeling animation and rendering it is used by such film houses as industrial light magic pixar and disney for creating 3d animation and special effects this maya press title a cooperative publication between sybex and alias wavefront is the perfect introduction to 3d and maya note cd rom dvd and other supplementary materials are not included as part of ebook file

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there are many programming hobbyists who write 2d games but there are far fewer that grasp the concepts of 3d programming this book will provide a practical example driven approach to learning the unique art of 3d game development that even the beginner can grasp

the beginner s guide series returns to focus on character creation in autodesk s industry leading 3d animation software maya

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