

Rig It Right Maya Animation Rigging Concepts Computers And People

Create innovative CG solutions with Maya and this creative guide Professional Maya artists have to think on their feet. It's nothing for them to receive just vague sketches or incomplete ideas of what the studio wants and have to come up with something brilliant. If you're an intermediate to advanced Maya user, *Maya Visual Effects: The Innovator's Guide, Second Edition* is what you need to meet the challenge. Professional Maya artist Eric Keller offers inspired solutions and hands-on projects, as well as numerous practical shortcuts and deadlines, so you learn to produce innovative CG assets from scratch, using Maya, on a deadline. Shows intermediate to advanced Maya users new solutions, workarounds, and shortcuts for creating Maya visual effects on deadline Gives readers plenty of hands-on projects, so they come up with solutions that they can add to their

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Maya toolsets Offers workable ideas that can be applied, no matter which version of Maya software is being used Presents projects in an engaging style, with pages of full-color imagery to illustrate concepts Create amazing effects with the creative insights and fresh advice in this new edition of Maya Visual Effects: The Innovator's Guide.

While some rigging books focus too much on the theory of rigging and provide little instruction, others do the exact opposite and offer no reasoning behind the button-pushing. An Essential Introduction to Maya Character Rigging, 2nd Edition, however, offers a perfect balance. Cheryl Briggs' text is built for the classroom, with step-by-step tutorials that guide the reader through the rigging process. With vibrant screenshots and a plethora of helpful tips, this book provides a strong foundation in character rigging for anyone who wants to pursue 3D animation or more advanced rigging topics. Features Provides readers with fundamental techniques to give them a firm grasp on Maya character rigging.

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Thorough step-by-step tutorials, which provides instruction on how to create biped, quadruped, and prop rigs.

Continuous updates and further support can be located at www.cherylcreates.com

Cheryl Briggs (formerly Cabrera) is an award-winning animated short film director. She has advised and guided aspiring animators, game artists, and visual effects artists for 20 years.

Since 2009, Cheryl has taught all aspects of production in the Character Animation specialization in the School of Visual Arts and Design at the

University of Central Florida. She also taught as Professor of Animation at the Savannah College of Art and Design from 2001 to 2009. Cheryl is currently on

the Board of Directors for the Animation Hall of Fame. She also is a member of the Special Interest Group on Computer Graphics and Interactive Techniques (SIGGRAPH), the

International Animated Film Society (ASIFA-Hollywood), Women in Animation, Women in Film and Television, and the Society for Animation Studies. Cheryl is also an Autodesk Certified

Professional and an Autodesk Certified

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Instructor in Maya. She is the author of An Essential Introduction to Maya Character Rigging (Focal Press, 2008), Reel Success: Creating Demo Reels and Animation Portfolios (Focal Press, 2013), and Animating Short Stories: Narrative Techniques and Visual Design (Bloomsbury Academic, 2019). Cheryl holds a B.A. and M.Ed. in Education and an M.F.A. in Computer Art with a specialization in 3D Animation. She is a digital artist and animator that blends the lines between digital imagery and the traditional painting medium. She has participated in numerous group and solo exhibitions in the United States and her work is featured in several private collections. Her award-winning students have been featured in animation festivals worldwide, and many have gone on to work within the entertainment industry.

The Beginner's Guide series returns to focus on character creation in Autodesk's industry leading 3D animation software, Maya.

Rigging a character can be a complicated undertaking. Move from a bi-

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pedal character to a quad- or poly-pedal and, well, things just got real. Where do you begin? Unlike all of those button-pushing manuals out there, Rig it Right! breaks down rigging so that you can achieve a fundamental understanding of the concept, allowing you to rig more intuitively in your own work. Veteran animation professor Tina O'Hailey will get you up and rigging in a matter of hours with step-by-step tutorials covering multiple animation control types, connection methods, interactive skinning, BlendShapes, edgeloops, and joint placement, to name a few. The concept of a bi-ped is explored as a human compared to a bird character allowing you to see that a bi-ped is a bi-ped and how to problem solve for the limbs at hand. After you have moved beyond basic bi-pedal characters, Rig it Right! will take you to a more advanced level where you will learn how to create stretchy rigs with invisible control systems and use that to create your own types of rigs. Hone your skills every step of the way with short tutorials and editable rigs that accompany each chapter. (17+ rigs!!)

Read Online Rig It Right Maya Animation Rigging Concepts Computers And People

Read "Tina's 10 Rules of Rigging" and build the foundational knowledge needed to successfully rig your characters. Visit the companion website (www.focalpress.com/cw/ohailey) and expand your newfound knowledge with editable rigs, exercises, and videos that elaborate on techniques covered in the book Coffee is not required - but encouraged.

Rig it Right! Maya Animation Rigging Concepts, 2nd edition

Character Rigging and Animation

Essential Tools and Techniques for Artists

Game Character Modeling and Animation with 3ds Max

Game Character Development with Maya
Rig it Right! Maya Animation Rigging Concepts, Second Edition

A Visual Reference for Multi-ethnic Facial Modeling

Pull Enhance your 2D skillset to the benefit of your own 3D animations to develop characters that are technically and artistically dynamic and engaging. With side by side comparisons of 2D and 3D character design, improve your character animation and master traditional principles and processes including weight and balance, timing and walks. Includes practical, hands-on examples, now fully updated to include 3ds

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Max, Maya and Blender tutorials. Master the fundamental techniques with the companion website which includes short demonstrations, 2D and 3D exercises and 20 fully rigged character models.

Explore Disney's 12 principles of animation, while learning how to animate in Maya. You can develop your own leading digital techniques rooted to traditional workflows. From squash and stretch to timing and appeal, you will enhance your creative toolset with strong classics training and cutting edge techniques. Trusted Maya Authority, Lee Montgomery offers the only artistic guide to applying the principles of traditional animation with Maya's tools, which are used in production by the best animators and VFX artists today. Add another webpage to your favourites and expand your digital workflow to include the practical resources of the Tradigital Maya with the robust companion website that include demonstrations, project files, links to further resources, available at www.tradigitalmaya.com. Trusted Maya authority, Lee Montgomery was key animator for Grand Theft Auto and Manhunt Video Game series. He is currently a senior level member of the Autodesk Media & Entertainment(M&E) Software support team, where he supports key customers in the film, video game and VFX markets using Maya, and is actively involved in Autodesk's community forums (AREA) as moderator and regularly contribute to internal training and user technical support content and feature PodCasts published through the Autodesk.com website. The "Tradigital" promise of offering specific tool-set instruction and connecting it with the classical principles of animation that all great animators need to know. Discover the tools, techniques and processes used in production by the best Maya animators and VFX artists today, as you explore the processes and techniques used to create award

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winning game and film animation. Companion web site offers: all of the Maya tutorial scene files as well as rendered sequences, and expanded tutorials.

"No other book to date presents facial animation concepts, theory, and practical application with the authority that Stop Staring does." —TIEM Design Crafting believable facial animation is one of the most challenging, yet rewarding aspects of 3D graphics. Done right, this art breathes life into otherwise deadpan faces. In this extraordinary book, professional animator Jason Osipa teaches you how to achieve realistic facial modeling and animation. Using detailed practical examples complemented with high-quality images and a touch of humor, Osipa leads you from design and modeling to rigging and animation. The CD and full-color insert demonstrate techniques you can use to fine-tune your facial animations. Reviewed and approved by Alias|Wavefront, Stop Staring: Facial Modeling and Animation Done Right, uses the Academy Award(r) winning Maya(r) 3D animation and effects software as the focus for its examples, yet the principles and techniques are described in ways that will be helpful to anyone working on facial modeling and animation. Mastering the Face Start out by getting familiar with the range of possible facial expressions, then focus on animating and modeling the mouth, eyes and brows. When you're ready to bring it all together, you can generate a scene from concept to completion. Topics covered include: Understanding how the whole face affects expression Learning visemes and lip sync techniques Constructing a mouth and mouth keys Building emotion through the eyes and brows Building interfaces to easily connect and control your models Skeletal setup, weighting, and rigging Note: CD-ROM/DVD and other supplementary materials are not included as part of eBook file.

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This book takes you step-by-step through the process of creating a playable 3D character using 3DS Max. Offering a complete overview of the 3D real-time character asset creation pipeline. Yancey Clinton will take you through the five major subjects used in the asset pipeline: 1. 3D modeling, including techniques specifically for both the body and head. 2. Unwrapping a model, which is one of the most misunderstood processes. 3. An overview of creating textures for your Unwrapped character using Photoshop. 4. Rigging or Skinning a Character, using the industry standard Character Studio 4. 5. 'How to make your character move' with an overview of game animation and deeper into Character Studio. But it doesn't end there! Yancey also shows you the final step; how to actually put the model into the Unreal editor and compile it for play in Unreal Tournament.

Game Anim

Advanced Maya Texturing and Lighting

Rig it Right! Maya Animation Rigging Concepts

How to Cheat in Maya 2017

Wings, Tails & Tentacles for Animation & VFX

Maya Animation Rigging Concepts

Digital sculpting is the use of tools to push, pull, smooth, grab, pinch or otherwise manipulate a digital object as if it were made of a real-life substance such as clay. Mudbox is the premier sculpting solution for digital artists, in that it allows them to naturally and easily sculpt detailed, organic characters and models in a way that feels like traditional sculpting. This book guides CG professionals through the process of creating

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amazing digital sculptures using the Mudbox arsenal of ground-breaking digital sculpting and 3D painting tools, and porting the models into their Maya or Max work. Artists will explore tried and true, traditional, sculpting techniques and learn to apply them to digital sculpting. A series of in-depth tutorials are included, each challenging them with progressively more complex models as they go on. Unique to this book are topics specific to fine art sculptors transitioning from traditional sculpting to digital sculpting. information found nowhere else for professional sculptors shows them how to successfully integrate digital sculpting into their workflow. Associated web site with: support files, models, materials, and textures for completing the tutorials in the book.

Great games have great characters: This comprehensive guide shows users how to create them using Maya 3D modelling software!

This is not a book about Maya software with a few animation pointers thrown in here and there. This is a guide to Maya software written by professional animators. This book provides you with complete, set-by-step walkthroughs of essential animation techniques that increase your speed and efficiency while using Maya 2017 for character animation.

From curves to constraints, this book covers all of the methods available in the latest version of Maya.

Featuring gold-mine coverage this book teaches you

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new techniques for working with characters in animation tests and short films. Accompanied by a companion site, this is the one and only guide to get you up to speed.

Breaking it down so that you can achieve a fundamental understanding of the concept, this book will get you up and rigging with step-by-step tutorials covering multiple animation control types, connection methods, interactive skinning, and much more. --

Create a Project from Start to Finish--model, Texture, Rig, Animate, and Render in Maya
Modeling and Animation Controls

Where Inspiration, Techniques and Digital Art meet
Facial Modeling and Animation Done Right
Rig it Right!

Advanced 3D Character Rigging

Open Source 3D Modeling, Animation, and Game Design

The essential fundamentals of 3D animation for aspiring 3D artists 3D is everywhere--video games, movie and television special effects, mobile devices, etc. Many aspiring artists and animators have grown up with 3D and computers, and naturally gravitate to this field as their area of interest. Bringing a blend of studio and classroom experience to offer you thorough coverage of the 3D animation industry, this must-have book shows you what it takes to create compelling and realistic 3D imagery. Serves as the first step to understanding the

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language of 3D and computer graphics (CG)
Covers 3D animation basics: pre-production, modeling, animation, rendering, and post-production Dissects core 3D concepts including design, film, video, and games Examines what artistic and technical skills are needed to succeed in the industry Offers helpful real-world scenarios and informative interviews with key educators and studio and industry professionals Whether you're considering a career in as a 3D artist or simply wish to expand your understanding of general CG principles, this book will give you a great overview and knowledge of core 3D Animation concepts and the industry.

Rig it Right! Maya Animation Rigging
Concepts Taylor & Francis

As animation software becomes more advanced and graphics become more refined, the opportunity to create informative detail becomes more achievable in your characters. You can't give every character the same facial contours anymore. Today's graphic engines and hi-definition screens enhance detail, and the features in your character can make or break the believability of your game or movie. Face It provides you with the resources that you need to ensure an accurate character model. By examining the skulls of people of different ages, ethnicities, and geographical areas, authors Patricia Beckmann-Wells and Scott Wells showcase the intricacies of the human head and face, and show you how to apply that to your models.

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Whether it be a Caucasian woman in her 50s or an African man in his late 20s, you'll know how to properly shape a forehead, an eye socket, and even cheekbones to ensure the 100% accuracy of your 3D character.

"...the best book out there for learning how to do MAYA rigging and animation." --Ian Cairns, Editor, MAYA Association Learning

Maya 5: Character Rigging and Animation will teach you everything you need to achieve effective character set-up and animation in Maya. Learn what you need to become a true puppet master! New for Maya 5! Updated from the popular Learning Maya: Character Rigging and Animation, the book's latest edition will allow you to explore powerful new features in Maya 5 such as IK/FK Blending and Parent Constraints. We've also updated Melvin to a polygonal model from a NURBS path model to make him easier to manipulate. In addition, you'll take advantage of updated graphical selectors and controls that will make your rigs more customizable and easier for artists to work with. Features: This book will allow you to explore character rigging that is based on a human character - walking you through the process as you rig arms, legs, a face, and more. Learn the fundamentals of properly setting up a character to avoid pitfalls as you animate. Starting from an introductory level, this book covers advanced concepts in a comfortable format. Each topic is explored in both theory and practice so that you'll be able to complete easy-to-

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follow, step-by-step tutorials. In addition, you'll take advantage of valuable chapter-by-chapter overviews provided in QuickTime format on DVD-ROM. Offered by one of the book's authors, Bill Dwelly, an Alias|Wavefront(TM) Certified Instructor, these helpful movies will allow you to gain additional insight as you work through the book. With this book you will:

- * Create Skeleton Chains and edit Joint Orientation.
- * Render particles with hardware graphics and software techniques.
- * Set up Single Chain, Rotation Plane, and Spline IK Solvers.
- * Use Set Driven Key to create powerful control systems.
- * Use of both Forward and Inverse Kinematics.
- * Simulated the deformation of clothing using Wire Deformers and Set Driven Key.
- * Drive Joint Rotation with a Blendshape Slider to help consolidate your control windows.
- * Understand the difference between Smooth and Rigid Binding.
- * Use Pole Vector constraints as a fast and easy way of achieving realistic motion in arms and legs.
- * Create a complex and subtle character deformations.

Lighting for Animation

Face it

Autodesk Official Press

Essential Skills in Character Rigging

Thinking Animation

Character Rigging and Animation ebook on DVD

A Primer for Technical Artists Using Maya and Python

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A unique, in-depth approach to creating realistic characters in Maya. Maya Character Creation: Modeling and Animation Controls' author, Chris Maraffi, has expertise in the field and in the classroom that translates to the knowledge and solid teaching skills needed to make this book a "must-have"! The current trend in computer graphics is greater organic realism. Many of the top-grossing movies today, such as Spiderman, Lord of the Rings, Jurassic Park 3 , and Star Wars Episode 2, all feature realistic 3D characters. There is a major need in the 3D community for educational material that demonstrates detailed techniques for achieving this organic reality. Maya is one of the main packages used on such cutting-edge films, and has an established toolset for creating believable 3D characters. Maya Character Creation: Modeling and Animation Controls is designed to take you through the process of designing, modeling, and setting up animation controls for complex 3D characters. The concepts, techniques, and Maya tools used for each step in the process are presented in each chapter, followed by many hands-on exercises. NURBS, polygon, and subdivision surface modeling techniques are shown for creating

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the character's skin, and skeleton-based animation controls are covered in detail. You will learn how a character's skin should deform when the skeletal joints and muscles move. Advanced MEL scripted animation controls are also covered extensively.

Learn Autodesk Maya from an award-winning insider Best-selling author, visual effects supervisor, and technical educator Dariush Derakhshani brings you a newly-updated, step-by-step guide to the most popular and complex 3D application on the market, Autodesk Maya. Introducing Autodesk Maya 2015 includes straightforward lessons, real-world examples, detailed tutorials, and downloadable project files that get you modeling and animating your own digital models and scenes right away. The book starts you with the latest CG concepts and production workflows, and then shows you how to create a solar system to help get you acquainted with the basic tool set in Maya. From there, the books helps you:

- Learn the Maya user interface, including menus and plug-ins
- Build simple animations and 3D images right away
- Explore polygons, modeling, and NEX tools
- Get started with HDRI lighting, rendering, dynamics, simulations, and effects

Whether you're

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new to 3D or migrating from another 3D application, Introducing Autodesk Maya 2015 will kick-start your creativity and get you up and running with Maya. Author Derakhshani has worked on movies such as The Fantastic Four and Pan's Labyrinth, the South Park TV series, and numerous commercials and music videos.

Learning Maya 6: Dynamics is your solution to creating stunning effects in Maya. Get hands-on experience with the innovative tools and powerful techniques available in the Maya Dynamics engine as you learn to create smoke, fire, dust, water and more. If your animations don't follow the laws of physics, Learning Maya 6: Dynamics is the tool you've been looking for. Learn to master the Maya Dynamics engine as you work with both rigid and soft body dynamics, particle animation and rendering, emitters and much more. Get the theory you need to understand what's happening in Maya and then work your way through helpful step-by-step exercises as you build smoke, dust, fire, and water. Learning Maya 6: Dynamics will allow you to add realism to your animations and create realistic effects without having to go back to school so you can prove that you don't need to be a rocket scientist to make one fly! Each chapter includes a

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theoretical discussion to help you understand the concepts at play, as well as easy to follow step-by-step tutorials so that you can start working right away. The book also includes an accompanying DVD-ROM featuring chapter-by-chapter overviews offered by Alias Certified Instructors. Gain additional insight and assistance from these valuable bonus discussions. You'll also take advantage of Maya Beginner's Guide: Dynamics to help you get started right away! With this book you will:

- * Create and Animate Rigid Body Objects
- * Create and Animate Particles Using Fields, Goals, Ramps and Expressions
- * Render Particles with Hardware Graphics and Software Techniques
- * Dynamically Animate NURBS and Polygonal Surfaces Using Soft Bodies
- * Utilize Artisan Functionality in Conjunction with Maya Dynamics Tools
- * Instance Geometry with Particle Motion
- * Use Dynamic Constraints Including Rigid Body Constraints and Soft Body Springs
- * Optimize and Troubleshoot Dynamics Scenes

What you need to use this book Maya Complete 6, Maya Unlimited 6, or Maya Personal Learning Edition. A DVD-ROM drive or set top player.

Many animators and designers would like to supplement their Maya learning with a less-technical, more helpful book. This self-

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study manual is both a general guide for understanding 3-D computer graphics and a specific guide for learning the fundamentals of Maya: workspace, modeling, animation, shading, lighting, and rendering. Understanding 3-D Animation Using Maya covers these fundamentals in each chapter so that readers gain increasingly detailed knowledge. After an initial 'concepts' section launches each chapter, hands-on tutorials are provided, as well as a chapter project that progressively adds newly learned material and culminates in the final animated short. This is the first book on Maya that teaches the subject using a sensible, proven methodology for both novices and intermediate users. Topics and features: - Proven method that emphasizes preliminaries to every chapter - Integrates the "why" concepts of 3-D simultaneously with the "how-to" techniques - Skills reinforced with tutorials and chapter projects - Real-world experience distilled into helpful hints and step-by-step guides for common tasks

Stop Staring

Rigging for Games

Introducing Autodesk Maya 2015

Getting Started in 3D with Maya

Beginning Blender

Body Language

Maya Visual Effects The Innovator's Guide

Lighting for Animation is designed with one goal in mind - to make you a better artist. Over the course of the book, Jasmine Katatikarn and Michael Tanzillo (Senior Lighting TDs, Blue Sky Studios) will train your eye to analyze your work more critically, and teach you approaches and techniques to improve your craft. Focusing on the main philosophies and core concepts utilized by industry professionals, this book builds the foundation for a successful career as a lighting artist in visual effects and computer animation. Inside you'll find in-depth instruction on:

- Creating mood and storytelling through lighting
- Using light to create visual shaping
- Directing the viewer's eye with light and color
- Gathering and utilizing reference images
- Successfully lighting and rendering workflows
- Render layers and how they can be used most effectively
- Specific lighting scenarios, including character lighting, environment lighting, and lighting an animated sequence
- Material properties and their work with lighting
- Compositing techniques essential for a lighter
- A guide on how to start your career and achieve success as a lighting artist

This book is not designed to teach software packages—there are websites, instructional manuals, online demos, and traditional courses available to teach you how to operate specific computer programs. That type of training will teach you how to create an image; this book will teach you the technical skills you need to make that image beautiful. Key Features Stunning examples from a variety of films serve to inspire and inform your creative choices. Unique approach focuses on using lighting as a storytelling tool, rather than just telling you which buttons

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to press. Comprehensive companion website contains lighting exercises, assets, challenges, and further resources to help you expand your skillset.

DVD-ROM includes over 9 hours of video lectures.

Maya Python for Games and Film is the first book to focus exclusively on how to implement Python with Maya.

Written by trusted authorities in the field, this in-depth guide will help you master Maya Python, whether you're a seasoned technical artist looking to make the transition from MEL to Python or an aspiring artist not wanting to scramble for information.

Level up your skills with powerful texturing and lighting techniques Advanced Maya Texturing and Lighting, Third Edition leads you through the latest advanced techniques for adding realistic detail to your models. This new edition is up-to-date with the latest Maya texturing, lighting, and rendering features, including an exploration of the Node Editor, new Maya utility nodes and expanded coverage of mental ray shaders, and render settings.

The proven tutorials are culled from real-world experience and refined to give you the ultimate in practical skills. You'll learn workflow tips and tricks, the construction of custom shading networks, and the application of time-saving tools that bring your project from concept to reality. The companion website features several gigabytes of Maya scene files, texture bitmaps, and QuickTime movies that support the exercises in the book, giving you everything you need to advance your animation skillset. This book helps you take your rendering skills to the next level with the advanced tools and techniques that take animation from good to great. Learn the theory behind expert lighting design Understand shadows, shading components, and texture mapping Work with node networks, raytracing, and global illumination Try new approaches to rendering using

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Maya Software and mentalray If you're ready to take a big step forward and fine-tune your style, Advanced Maya Texturing and Lighting, Third Edition is the practical, hands-on guide you need.

Digital Sculpting with Mudbox

Bridging the Gap Between 2D and CG

Learning Maya 6

Video Game Animation Explained

A Complete Reference for Maya Python and the Maya Python API

Digital Mayhem 3D Machine Techniques

The Art of Rigging

Unity is a feature-rich, fully-integrated development engine that provides out-of-the-box functionality for the creation of interactive 3D content. It is an exciting engine that has a rich and sophisticated animation system called Mecanim. Unity Animation Essentials offers a comprehensive introduction to powerful animation tools and principles in Unity, which can be used to make great games. This book starts by exploring core animation concepts and then dives deeper to demonstrate their practical application in real-time games. This book shares extensive and useful insights to create animations using a professional grade workflow, and to create responses and interactive scenes. Each chapter focuses on a specific range of topics, from timing and events to character animation and particle systems. By the end of the book, you should be able to fully utilize the powers of Mecanim and Unity.

In a follow-up book, which re-iterates the principles of “Digital Creature Rigging: The Art & Science of CG Creature Setup in 3ds Max”, and enhances their relativity with advanced wing, tail and tentacle setups. This book will discuss advanced rigging techniques in 3ds Max, while readers create a fish, octopus and a Game of Thrones style dragon! Key Features This is the next step in CG creature setups in 3ds Max. Although 3ds Max specific, the techniques and foundations will work for any 3D application. By following the step-by-step guides in this book, you can finish and complete a portfolio ready. Each chapter will include an introduction and a summary, giving significance to the start and end of each chapter where our readers can rest! This book includes a companion website where chapter supplements and core files and documents could be easily accessed. Whether for big budget films and game productions or lower budget TV and Internet content, creating flexible and believable character rigs is an essential skill required to bring any 3D animation to life. As the leading software used for cutting-edge animation, Maya has an established rigging toolset for creating realistic character controls. Traditionally, however, the process of manually building custom rigs in the software interface has been time-consuming and expensive for those who want to produce high-quality 3D characters. Now

for the first time and from the author of the best-seller, Maya Character Creation, comes an in-depth guide on how the pros are using MEL (Maya Embedded Language) scripting to streamline and automate the rigging process. With MEL Scripting a Character Rig in Maya, you'll learn how you can build custom character rigs in a matter of seconds, as opposed to days or weeks. In this detailed guide, you'll learn:

- **The techniques used to build a complex character rig in the software interface, followed by instructions for writing the equivalent MEL code for scripting the entire process.**
- **Fundamental concepts of creating animation controls in Maya, from the basics of creating, editing, and binding skeletons, to more complex rigs with controls that employ spline IK and channel connections.**
- **Important coding techniques such as using conditional statements, loops, variables, and procedures.**
- **How to create a character animation GUI (Graphical User Interface) that makes animating the character easy and fast.**
- **Important skills for building rigs using numerous hands-on exercises, all code examples and Maya files available on the companion Web site.**

A new world of creative possibilities is opened by Blender, the most popular and powerful open source 3D and animation tool. Blender is not just free software; it is also an important professional tool used in animated shorts, television commercials, and shows, as well as in production

for films like Spiderman 2. Lance Flavell's **Beginning Blender** will give you the skills to start shaping new worlds and virtual characters, and perhaps lead you down a new professional path. **Beginning Blender** covers the Blender 2.5 release in-depth. The book starts with the creation of simple figures using basic modeling and sculpting. It then teaches you how to bridge from modeling to animation, and from scene setup to texture creation and rendering, lighting, rigging, and ultimately, full animation. You will create and mix your own movie scenes, and you will even learn the basics of games logic and how to deal with games physics. Whether you are new to modeling, animation, and game design, or whether you are simply new to Blender, this book will show you everything you need to know to get your 3D projects underway.

**A Definitive Guide to Character Technical
Direction with Alias Maya**

MEL Scripting a Character Rig in Maya

Tools and Techniques for Character Animation

Integrating 2d and 3d Assets

Mastering the Art of Exaggerated Animation

**A CG Animator's Guide to Applying the Classic
Principles of Animation**

Cartoon Character Animation with Maya

*Describes ways artists can use
traditional animation techniques with
computer technology.*

Rigging for Games: A Primer for

Technical Artists Using Maya and Python is not just another step-by-step manual of loosely related tutorials. Using characters from the video game Tin, it takes you through the real-world creative and technical process of rigging characters for video games and cinematics, allowing readers a complete inside look at a single project. You'll explore new ways to write scripts and create modular rigs using Maya and Python, and automate and speed up the rigging process in your creative pipeline. Finally, you'll learn the most efficient ways of exporting your rigs into the popular game engine Unity. This is the practical, start-to-finish rigging primer you've been waiting for! Enhance your skillset by learning how to efficiently rig characters using techniques applicable to both games and cinematics Keep up with all the action with behind-the-scenes images and code scripts Refine your rigging skills with tutorials and project files available on the companion website Rig it Right! breaks down rigging so that you can achieve a fundamental

understanding of the concept. The author will get you up and rigging with step-by-step tutorials covering multiple animation control types, connection methods, interactive skinning, BlendShapes, edgeloops, and joint placement, to name a few. The concept of a bi-ped is explored as a human compared to a bird character allowing you to see that a bi-ped is a bi-ped and how to problem solve for the limbs at hand. Rig it Right! will take you to a more advanced level where you will learn how to create stretchy rigs with invisible control systems and use that to create your own types of rigs. Key Features Hone your skills every step of the way with short tutorials and editable rigs that accompany each chapter. (17+ rigs!!). Read "Tina's 10 Rules of Rigging" and build the foundational knowledge needed to successfully rig your characters. Visit the companion website and expand your newfound knowledge with editable rigs, exercises, and videos that elaborate on techniques covered in the book. Companion data filled with example files at <http://routledgetextbooks.com/>

textbooks/_author/ohailey/ AR(Augmented Reality) enabled images throughout the book! Coffee is not required – but encouraged.

Start modeling right away with this hands-on guide to learning Autodesk Maya 2016 Introducing Autodesk Maya 2016 is the official guide to the most popular and complex 3D application on the market. Building from the ground up, this book combines straightforward text with practical examples that make it easy to absorb the basics and start designing and animating your own digital models and scenes. The tutorials offer realistic challenges and clear explanations, laid out in fun, step-by-step lessons that help you gain confidence and learn by doing. You'll delve into CG and 3D core concepts and production workflows, then get right to work designing an animation of the solar system as you learn the interface and basic tools. As your modeling skills grow, you'll build a steam locomotive, a starfish, a table lamp, and much more as you learn to rig your model for animation, create fabric motion with nCloth, and add the

lighting and effects that bring your scenes to life. The companion website features downloadable project files that help you see how the pros do it, and the book includes real-world examples from talented users who were beginners just like you. Master the Maya 2016 interface, menus, and plug-ins Begin building simple animations right away Explore modeling, rendering, animation, and cloth motion Add lighting, rendering, dynamics, simulations, and effects If you want to work like the pros, Introducing Autodesk Maya 2016 is the perfect primer for getting started.

An Essential Introduction to Maya Character Rigging

Unity Animation Essentials

Maya Python for Games and Film

Digital Creature Rigging

Understanding 3D Animation Using Maya

3D Animation Essentials

Maya Character Creation

All professional animators know a handful of secrets that give them an edge in a production environment. "How to Cheat in Maya" puts these secrets in your hands! Learn time and energy-saving techniques tested in real Hollywood productions in this book, jam-packed with

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screenshots and scene files designed to get you up to speed quickly. From menus to modeling, lipsync to lighting, How to Cheat in Maya 2014 covers all of the methods available in the latest version of Maya. Get up to speed quickly and produce stellar results with these insider workflows. With new, updated cheats for the latest version of Maya, How to Cheat in Maya 2014 is an essential guide for amateur and professional 3D animators alike. Fully updated with goldmine coverage including: expanded sections on production workflow, all new chapters covering rigging cheats and Maya's referencing tools, and brand new project files demonstrating production-proven techniques. The companion website includes complete scene files for exercises and techniques, extra rigs, Quicktime movies of full projects, and video tutorials.

Have you ever wanted to try your hand at cartoony computer animation? Then look no further... Cartoon Character Animation with Maya will help you create just that, guiding you through every step of the process including how to incorporate multiple limbs, smears, motion lines and staggers seamlessly into your animation. From planning to posing to polish, you'll learn how to make the most of breakdowns, take the terror out of tangent types and overcome the oft-feared graph editor. Each chapter includes insight and advice from world-leading character animators, and the companion website, www.bloomsbury.com/Osborn-Cartoon-Animation, includes a short animation featuring the star of the book, Mr. Buttons. There's also a specially created rig of Mr. Buttons for you to animate with, as well as walk-through videos demonstrating key techniques. Everything you need

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to help you animate your own cartoony creations! Includes interviews with: Ken Duncan, Beauty and the Beast, Aladdin, 9; Jason Figliozzi, Wreck it Ralph, Frozen, Big Hero 6; T. Dan Hofstedt, Pocahontas, Mulan, Planes; Ricardo Jost, The Nut Job, The Snow Queen 2; Pepe Sánchez, Pocoyo, Jelly Jamm; Matt Williams, Looney Tunes: Back in Action, The Princess and the Frog

The second edition of Game Anim expands upon the first edition with an all-new chapter on 2D and Pixel Art Animation, an enhanced mocap chapter covering the latest developments in Motion Matching, and even more interviews with top professionals in the field. Combined with everything in the first edition, this updated edition provides the reader with an even more comprehensive understanding of all areas of video game animation – from small indie projects to the latest AAA blockbusters. Key Features • New 2nd Edition Content: An all-new chapter on 2D and Pixel Art Animation, Motion Matching, and more • 20 Years of Insight: Accumulated knowledge from 2 decades of experience in all areas of game animation. • The 5 Fundamentals: Reinterprets the classic 12 animation principles and sets out 5 new fundamentals for great game animation. • Full Production Cycle: Walks through every stage of a game production from the animator's perspective. • Animator Interviews: Notable game animators offer behind-the-scenes stories, tips, and advice. • Free Animation Rig: Free "AZRI" maya rig, tutorials and other resources on the accompanying website: www.gameanim.com/book About The Author Jonathan Cooper is an award-winning video game animator who has brought virtual characters to life professionally since 2000.

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leading teams on large projects such as the Assassin's Creed and Mass Effect series, with a focus on memorable stories and characters and cutting-edge video game animation. He has since focused on interactive cinematics in the latest chapters of the DICE and Annie award-winning series Uncharted and The Last of Us. Jonathan has presented at the Game Developers Conference (GDC) in San Francisco and at other conferences across Canada and the United Kingdom. He holds a Bachelor of Design honors degree in animation.

Artist imaginations continue to grow and stretch the boundaries of traditional animation. Successful animators adept and highly skilled in traditional animation mediums are branching out beyond traditional animation workflows and will often use multiple forms of animation in a single project. With the knowledge of 3D and 2D assets and the integration of multiple animation mediums into a single project, animators have a wealth of creative resources available for a project that is not limited to a specific animation medium, software package or workflow process. Enhance a poignant scene by choosing to animate the scenic background in 2D while the main character is brought to life with 3D techniques. Balance the budget demands of a project by choosing to integrate a 2D or 3D asset to save time and expense. Choose which medium Hybrid Animation, learn the systematic development of the 2D and 3D assets and the issues surrounding choices made during the creative process.

Learning Maya 5

The Art of Visual Storytelling

Introducing Autodesk Maya 2016

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Beginner's Guide to Character Creation in Maya
Hybrid Animation

The Game Animator's Guide to Maya

How to Cheat in Maya 2014

Character rigging is the method with which you create a system for animating a character. A rig is represented by two primary mechanics: the skeleton, consisting of hierarchical rotations to drive the motions, and a skin, or method of deforming the geometry that makes up the character model.

Essential Skills in Character Rigging is a beginner's guide to learning and understanding the essential aspects of character setup, evaluation, skeletal construction, and deformation.

Borrowing from the author's extensive experience in the field, it presents the primary theories, constructs, and objectives for constructing a basic rig from the ground up, just as it would be done in a professional studio. The book explains the basic elements of hierarchies, skeletons, kinematics, deformation, skinning, and creating relationships between nodes. It gives hands-on experience with taking a completed character model and setting it up with a skeleton with kinematics and soft-skin deformation. It also gives specific instructions on using inverse kinematics systems, and how to set up the essential mechanics of a human rig with these systems. All of these lessons are conducted using a simplistic, conversational style that keeps technical and mathematical jargon to a minimum. The book also includes video tutorials corresponding to specific modules. Essential Skills in Character Rigging takes aspiring character artists through the vital components in the process of taking a 3D character model and turning it into an animatable rig that is ready for production in film or games. It identifies the universal fundamentals at work behind character

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rigging, and the practical complexities of the process are broken down into simple steps that are easy to comprehend and execute.

From Icy Tundras to Desert savannahs, master the art of landscape and environment design for 2D and 3D digital content. Make it rain, shower your digital scene with a snow storm or develop a believable urban scene with a critical eye for modeling, lighting and composition. Move beyond the limitations of gallery style coffee table books with *Digital Mayhem: 3D Landscapes*-offering leading professional techniques, groundbreaking inspiration, and artistic mastery from some of the greatest digital artists. More than just a gallery book - each artist has written a breakdown overview, with supporting imagery of how they made their piece of work. Compiled by Duncan Evans, founder and inspiration behind *3DArtist Magazine*, start your mentorship into the world of digital art today with some of the greatest digital artists in the world! Develop your landscape and background skills beyond the variety of free online tutorials and apply the most up to date techniques, like colour and contrast enhancements, sharpening, composition, lighting and more! Expand your digital canvas to include a variety of software techniques, tools and workflows featuring Photoshop, Painter, Maya and 3ds Max examples. A source of inspiration for digital artists everywhere: more than 50 artists and 700 stunning color images are showcased with an in-depth companion website that includes professional source files and further technique based skills development. Teaches how to use Maya to create three-dimensional animation projects, including focusing on such topics as lighting, modeling, and character skinning.

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Whether you're a professional Character TD or just like to create 3D characters, this detailed guide reveals the techniques you need to create sophisticated 3D character rigs that range from basic to breathtaking. Packed with step-by-step instructions and full-color illustrations, *Body Language* walks you through rigging techniques for all the body parts to help you create realistic and believable movements in every character you design. You'll learn advanced rigging concepts that involve MEL scripting and advanced deformation techniques and even how to set up a character pipeline.

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