

MEL Scripting a Character Rig in Maya

Chris Maraffi



New
Riders

Mel Scripting A Character Rig In Maya

Mark Adams,Max Sims,Erick Miller



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MEL Scripting a Character Rig in Maya Chris Maraffi, 2010-04-16 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

Maya Character Creation Chris Maraffi, 2003-09-11 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 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 Body Language Eric Allen, Kelly L.

Murdock, 2011-03-31 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

Technical Animation in Video Games Matthew Lake,2023-12-11 This book provides a comprehensive overview of video game technical animation covering the next generation pipelines that industry developers utilise to create their games It covers the technical animation workflow from start to finish looking at both software and hardware as well as the industry standard processes that all technical animators need to know Written to be an accessible technical animation resource this book combines easy to understand principles with educational use cases on how to combine the principles and tools taught within Example test scripts animation files and rig assets are provided as tangible examples that can be modified and taken apart to deepen your understanding It covers the end to end pipeline of technical animation from the very first steps of placing joints in Autodesk s Maya to breathe life into your static characters through tools and automation development all the way to Unreal Engine 5 integration and optimisation Additional resources are available on the book s GitHub repository From this resource you will find example files for Maya and Python scripts that will help with your own work and demonstrations featured throughout this book This book is essential reading for early career game technical animators as well as those studying game animation courses It will also appeal to technical animators working in the film industry [Inspired 3D Advanced Rigging and Deformations](#) Brad Clark,John Hood,Joe Harkins,2005 More than just a step by step tutorial on rigging in Maya Inspired 3D Advanced Rigging and Deformations helps you develop the skills you need to successfully manage your rigging process from start to finish You ll learn the reasons behind each step in developing a character rig and learn how that rig fits into the entire pipeline process The authors provide a unique glimpse at the real world problems and choices that professional Character Technical Directors face as well as the solutions they have developed for dealing with high end digital characters A follow up to Inspired 3D Character Setup this book takes this difficult and sough after skill and provides in depth explanations and techiques [Maya 6 Killer Tips](#) Eric Joseph Hanson,Kenneth Ibrahim,Alex Nijmeh,2004 With more than 90 percent of film effects houses and half of the North American game studios using Maya in their projects the pressure is on for 3D modelers to prove their Maya chops It s not enough to just know how to use the program you need to demonstrate that you can do so swiftly efficiently and with dazzling results Here to ensure you do is a fun full colored guide that s been pared down to just the essentials the hundreds of tips shortcuts and tricks the pros use every day to speed their Maya 6 workflows Along with tips for customizing the Maya interface polygonal modeling rendering and more veteran author Eric Hanson also provides tons of insider techniques for working with Maya 6 s newest features including tips for working with new tools like the Soft Modification Tool Animation Retargeting and High Quality Shading advice for working with the new particle behavior features cool new hotkeys and insight into streamlining the texting process with Maya s new

Photoshop integration to name only a few You'll quickly find that the techniques revealed here allow you to work faster smarter and more creatively

Maya 5 Savvy John Kundert-Gibbs, Peter Lee, Dariush Derakhshani, Eric Kunzendorf, 2004 Savvy n Practical know how Maya the premier high end 3D application is so powerful that no one masters it without help Maya 5 Savvy a thorough update to Maya 4.5 Savvy is written for the Maya user looking to boost their skills to the next level Running throughout this book is a completely new cohesive expertly organized animation project that teaches specific Maya skills and at the same time gives you valuable hands on exposure to the entire animation production process Staged support files mean that you can begin and end work on this project anywhere you like which in turn means you can read this book cover to cover or use it as a reference dipping in wherever you need information on or practice with specific modeling animation and rendering techniques Everywhere you turn you'll find expert advice on the latest Maya features time saving shortcuts and advanced capabilities Coverage includes Core Maya interface briefing plus planning writing and storyboarding your animation Modeling NURBS polygons and subdivision surfaces character modeling Animation paths and bones deformers binding Trax rigid body dynamics MEL scripting particle animation expression driven animation Output rendering architecture rendering shading and texturing lighting special light effects Advanced Tools and Techniques Paint Effects ramps and volumes soft body dynamics Fluid Effects Fur Cloth Note CD ROM DVD and other supplementary materials are not included as part of eBook file

Maya?Character Animation Jae-Jin Choi, 2004-04-16 The best character animation book available Ian Cairns Editor MAYA Association This second edition of the popular Maya Character Animation is an in depth step by step guide to perfecting your modeling and animation skills Abundantly illustrated tutorials teach you how to build life like characters from the ground up with detailed coverage of effective subdivision surface and polygon modeling techniques You'll master the intricacies of rigid and smooth character binding discover the art of convincing facial expressions and conquer post modeling challenges ranging from character setup to non linear animation editing to mapping and rendering Benefit from this edition's coverage of inverse and forward kinematics 3D character animation for character modeling and character setup and valuable info on rigging your characters Put your new skills to the test by completing a realistic project in which you plan create and refine your own short piece animation Throughout you'll find hundreds of full color images that demonstrate what you can and will accomplish You also get bonus coverage of Deep Paint 3D the premier texture painting program

Maya Secrets of the Pros John L. Kundert-Gibbs, Dariush Derakhshani, 2005 Featuring completely original material from a new team of Maya know it alls this second edition of an award winning book is sure to inform and inspire even the most seasoned Maya user In this distinctive Maya Press title a cadre of professionals led by two acclaimed Maya pros reveal the precious secrets they've learned using Maya on high profile CG projects such as The Matrix Shrek 2 and X Men In nine unique and compelling chapters you'll get detailed and sophisticated instruction on how to Enhance fluidity and realism by generating complex motion with Maya Cloth Apply non photorealistic rendering styles that

mimic the look of comic books and impressionist paintings Emulate real world camera motion from dolly and pan movement to varying levels of camera shake Produce natural lighting effects using global illumination and image based lighting Ensure smooth and accurate transfer of character data from modeling to rigging to animation to lighting Control IK chains deformers and surfaces with Maya Hair s dynamic curves Use dynamics effectively to create flexible objects and add secondary effects to enhance your animation Use Maya s built in noise function to produce powerful effects similar to those used in The Matrix trilogy Create a human face from a conceptual sketch using subdivision surfaces Creating Striking Graphics with Maya and Photoshop Daniel Gray,2004-08-09 Add Another Dimension to Your Portfolio And Move to the Top of Your Craft Professional artists who strive to bring a new look to their illustrations are using Alias premier 3D software in tandem with Adobe s prominent digital imaging program to create cutting edge graphics Now with Maya 6 this remarkable combo is even better integrated than before Creating Striking Graphics with Maya and Photoshop brought to you from Maya Press a publishing partnership between Sybex and Alias is a dazzling introduction to the vibrant world of 3D and Maya Graphics wiz Daniel Gray with help from an elite group of pros will inspire you to incorporate 3D into your graphics and think more artistically when approaching your creations And if you re already familiar with Maya you ll learn how Maya 6 makes it even easier to work between both applications First you ll get the essential Photoshop user s introduction to Maya and learn how to make the leap from 2D to 3D Then you ll discover how high profile artists use Maya and Photoshop together in real world scenarios where 2D and 3D collide in a burst of creativity Through a series of interviews that address a variety of 3D applications you ll discover how Maya Master Meats Meier depicts Mother Nature with otherworldly success Michael Elins combines photography and classical painting with the 3D world Damon Riesberg cranks out a daily comic strip by posing and rendering his cast of characters guru studios crafts beautiful 3D cartoons with a cool retro feel for TELETOON Meteor Studios brings ultra realistic prehistoric creatures to life for the Discovery Channel s Dinosaur Planet IBM painstakingly re creates ancient artifacts such as the Sphinx for the Egyptian Museum in Cairo Meshwerks digitizes automobiles for use in movies advertising and video games and creates the ultra cool chopped and channeled Honda EleMENTAL Woodie Note CD ROM DVD and other supplementary materials are not included as part of eBook file **Getting a Job in Computer**

Graphics Sean Wagstaff,Dariush Derakhshani,2004 Get the Inside Track to Landing an Envable 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

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reliance on the help files Do your questions about Maya center on how to put all the pieces together and use the software in a production setting If so Inside Maya 5 is just what you want and need Industry professionals who have worked for such houses as Digital Domain ILM PDI DreamWorks and Pixar provide insights into making great production decisions that take advantage of the power of Maya without compromising production quality real world solutions to real world challenges You ll get coverage of Using Maya in the digital studio pipeline MEL and the Maya API Modeling techniques for NURBS polygonal modeling and subdivision surfaces Modeling characters sets and props Maya s node based architecture Particles and dynamics Character animation and rigging Lighting shading and rendering Bonus interviews with Scott Clark Pixar and Paul Thuriot Tippett Studios The companion CD includes the source files you need to complete the exercises in each chapter

Character Rigging in Maya George Maestri, 2012 **Maya Visual Effects The Innovator's Guide** Eric

Keller, 2013-04-12 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 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 Maya® Secrets of the Pros™ John Kundert-Gibbs, Dariush Derakhshani, 2006-02-20 Featuring completely original material from a new team of Maya know it alls this second edition of an award winning book is sure to inform and inspire even the most seasoned Maya user In this distinctive Maya Press title a cadre of professionals led by two acclaimed Maya pros reveal the precious secrets they ve learned using Maya on high profile CG projects such as The Matrix Shrek 2 and X Men In nine unique and compelling chapters you ll get detailed and sophisticated instruction on how to Enhance fluidity and realism by generating complex motion with Maya Cloth Apply non photorealistic rendering styles that mimic the look of comic books and impressionist paintings Emulate real world camera motion from dolly and pan movement to varying levels of camera shake Produce natural lighting effects using global illumination and image based lighting Ensure smooth and accurate transfer of character data from modeling to rigging to animation to lighting Control IK chains deformers and surfaces with Maya Hair s dynamic curves Use dynamics effectively to create flexible objects and add secondary effects to enhance your animation Use Maya s built in noise function to produce powerful effects similar to those used in The Matrix trilogy Create a

human face from a conceptual sketch using subdivision surfaces

Maya 5 Savvy John Kundert-Gibbs, Peter Lee, Dariush Derakhshani, Eric Kunzendorf, 2006-07-14 Savvy n Practical know how Maya the premier high end 3D application is so powerful that no one masters it without help Maya 5 Savvy a thorough update to Maya 4 5 Savvy is written for the Maya user looking to boost their skills to the next level Running throughout this book is a completely new cohesive expertly organized animation project that teaches specific Maya skills and at the same time gives you valuable hands on exposure to the entire animation production process Staged support files mean that you can begin and end work on this project anywhere you like which in turn means you can read this book cover to cover or use it as a reference dipping in wherever you need information on or practice with specific modeling animation and rendering techniques Everywhere you turn you ll find expert advice on the latest Maya features time saving shortcuts and advanced capabilities Coverage includes Core Maya interface briefing plus planning writing and storyboarding your animation Modeling NURBS polygons and subdivision surfaces character modeling Animation paths and bones deformers binding Trax rigid body dynamics MEL scripting particle animation expression driven animation Output rendering architecture rendering shading and texturing lighting special light effects Advanced Tools and Techniques Paint Effects ramps and volumes soft body dynamics Fluid Effects Fur Cloth Note CD ROM DVD and other supplementary materials are not included as part of eBook file

Maya Professional Tips and Techniques Lee Lanier, 2007-06-05 Designed for busy Maya users like you this guide offers dozens of how tos workarounds and shortcuts culled from years of experience in a fast paced deadline driven production pipeline You ll discover tricks and timesavers on texturing particles customizing Paint Effects brushes modeling polygon faces creating facial rigs with wire deformers and much more and helpful full color illustrations reinforce the concepts From modeling animating and rigging to texturing and lighting this book will help you streamline workflow and improve your skills

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