

MEL Scripting a Character Rig in Maya

Chris Maraffi



Mel Scripting A Character Rig In Maya

Cheryl Briggs



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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

MEL Scripting for Maya Animators Mark R. Wilkins, Chris Kazmier, 2005-08-23 Trying to learn Maya programming from the documentation can be daunting whether or not you are a programmer The first edition of *MEL Scripting for Maya Animators* earned the reputation as the best introductory book on

MEL Maya's scripting language Now fully revised and updated the second edition also includes new features such as a discussion of global procedures new chapters on fixing programming bottlenecks advanced user interface techniques and optimizing character rigs New chapters on utility nodes and Maya's Web Panel feature provide new ideas on how to use MEL in applications This new edition has kept the popular style of the first edition that offered very clear explanations of programming concepts to those without programming experience A generous collection of code examples and Maya scene files is included on the companion Web site This is a book for animators artists game developers visual effects developers and technical directors who want to learn the fundamentals of Maya how to automate tasks personalize user interfaces build custom tools and solve problems with MEL Fully updated with several new chapters Profusely illustrated and includes a companion Web site with numerous code examples and scene files The authors bring their extensive experience in professional production studios to provide expert guidance

An Essential Introduction to Maya Character Rigging with DVD Cheryl Cabrera, 2012-09-10 Discover the concepts and techniques required to rig engaging CG character models with Maya in this unique book and DVD package The stunning color images show just what you can achieve and the detailed step by step tutorials show exactly how to achieve them Every technique and tip is backed up with practical tutorials using the models student work and tutorial assets on the companion DVD to offer a crash course in this vital skill With Cheryl Cabrera you'll learn about Designing your first Biped Character Creating your first Biped Character Modeling Basics Biped Character Facial Expressions Texturing Basics Skeleton setup for a Biped Character Joint Placement Control Rig setup for a Biped Character IK and FK Wrapping up the setup Skinning your Character

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

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

An Essential Introduction to Maya Character Rigging Cheryl Briggs, 2021-02-11 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 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 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

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Maya 6 Killer Tips Eric Hanson,Kenneth Ibrahim,Alex Nijmeh,2011-09-30

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® 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

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