

Chapter 9 – Animation	2
9.1 Animation Introduction.....	2
9.2 The Animation Editor in detail	3
9.2.1 Story	3
9.2.2 Saving Clips	11
9.2.3 Loading Clips	12
9.2.4 Dope Sheet	13
9.2.5 F Curve.....	15
9.2.6 The Control Panel	18
9.2.7 Animation Preferences Panel	20
9.2.8 Workspace Hardware Settings	22
9.3 The Tutorials	23
9.3.1 Basic Workflow – Simple One Track, One Clip Animation	23
9.3.2 Basic Character Animation - One Track, One Clip	34
9.3.3 Advanced Workflow – Multiple Clips for Blending Actions	37
9.3.4 Advanced Workflow – Reusing Clips for Other Objects	47
9.3.5 Advanced Workflow – Multiple Clips for Skeletons	54
9.3.6 Advanced Workflow – Copying Clips from One Character to Another	58
9.3.7 Different Kinds of Animation	59
9.3.8 Procedural Animation plus Keyframes	59
9.3.9 Using Physics to Generate Keyframes, Part 1	62
9.3.10 Using Physics with Characters.....	65
9.3.11 Using Physics to Generate Keyframes, Part 2	66
9.3.12 Using Physics to Generate Keyframes, Part 3	70
9.3.13 Using Keyframes to Generate Physics, Part 1	70
9.3.14 Fine Tuning a Character Pose Using FK	74
9.3.15 Using the F Curve Editor	75
9.3.16 Interpolation	76
9.3.17 The Pass Through Parameter	87
9.3.18 A Little More About Additive Mode	89
9.3.19 Ensuring Nothing Happens Between Two Keyframes	90
9.3.20 Putting it all Together	92
9.4 Morphs	97
9.4.1 The Morph Panel.....	97

Chapter 9 – Animation

9.1 Animation Introduction

This chapter documents the new animation tools found in the Workspace (it does not cover the animation tools such as the KFE and similar that are found in the Model side). The Workspace features a powerful range of tools for creating animation which will let you work with physics simulation, skeletons, keyframed animation, and imported motion capture via BVH. You can in fact flexibly combine all of these different types of animation, giving you many different ways to achieve exactly what you are looking for.

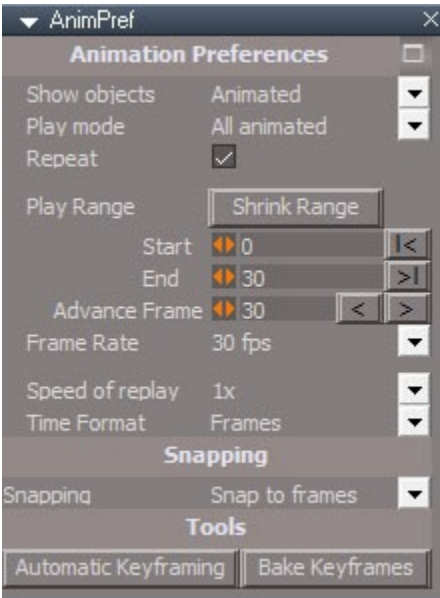
The chapter begins with a look through each of the tools associated with this process, and then moves on to some introductory tutorials that take you through some ways of creating animation in trueSpace.

will move the active frame to 300; if it is displaying an ending frame 600, then it will move the active frame to 600, and so on (including for an end frame with a negative value).

9.2.7 Animation Preferences Panel



This panel can be found in the Settings aspect of the Stack, and shows when the Animation Editor window has focus (simply click on the Animation Editor window and this panel will display in the Settings aspect of the Stack). The parameters are :



- Shrink Range : TODO
- Advance Frame : TODO
- Automatic Keyframing : TODO
- Bake Keyframes : TODO

9.4 Morphs

Morphs give you the ability to store and blend between different states of a model. These different states are created using the regular Point Editing tools - for example, you could use point editing to create a smile on a character, storing it as a morph. Then you create a new morph, point editing to make a frown. Then you can blend between those two expressions (and many more of course), either creating the perfect expression for your character in a still image, or recording your results in an animation.

9.4.1 The Morph Panel



To begin working with morphs, you will need to create the first morph for an object. To do this, click on the Add Morph icon in the character editor tools, and this will open the morph panel, create a new morph for the object, and take you into edit mode on that morph.

Once you have at least one morph added to an object, then the morph panel will open automatically when you click on that object, without the need to click on the Add Morph icon again.

