

3.3.4 Editors - Animation - NLA Editor

Non-Linear Animation Editor.....	1
Tracks.....	1
Strips.....	1
Creating Action Strips.....	1
Creating Transition Strips.....	2
Grouping Strips into Meta Strips.....	2
Editing Strips.....	2
Re-Instancing Strips.....	4
Strip Properties.....	4
Renaming Strips.....	4
Active Track.....	5
Active Strip.....	5
Active Action.....	5
Evaluation.....	6
Strip Modifiers.....	6

Non-Linear Animation Editor

The NLA editor can manipulate and repurpose actions, without the tedium of keyframe handling. Its often used to make broad, significant changes to a scene's animation, with relative ease. It can also repurpose, and 'layer' actions, which make it easier to organize, and version-control your animation.

Tracks

Tracks are the layering system of the NLA. At its most basic level, it can help organize strips. But it also layers motion much like an image editor layers pixels - the bottom layer first, to the top, last.



Strips

There's three kinds of strips - Action, Transition, and Meta. Actions contain the actual keyframe data, Transitions will perform calculations between Actions, and Meta will group strips together as a whole.

Creating Action Strips

Any action used by the NLA first must be turned into an Action strip. This is done so by clicking the



next to the action listed in the NLA. Alternatively, you can go to

Reference

Menu: Add → Action



Action Strip.

Creating Transition Strips

Select two or more strips on the same track, and go to

Reference

Menu: Add → Transition



Transition Strip.

Grouping Strips into Meta Strips

If you find yourself moving a lot of strips together, you can group them into a Meta strip. A meta strip can be moved and duplicated like a normal strip.

Reference

Menu: Add → Add Meta-Strips

Hotkey: Shift - G



Shift-select two or more strips..



Combine them into a meta strip.

A meta strip still contains the underlying strips. You can ungroup a Meta strip.

Reference

Menu: Add → Remove Meta-Strips

Hotkey: Alt - G

Editing Strips

The contents of Action strips can be edited, but you must be in 'Tweak Mode' to do so.

Reference

Menu: View → Enter Tweak Mode

Hotkey: Tab



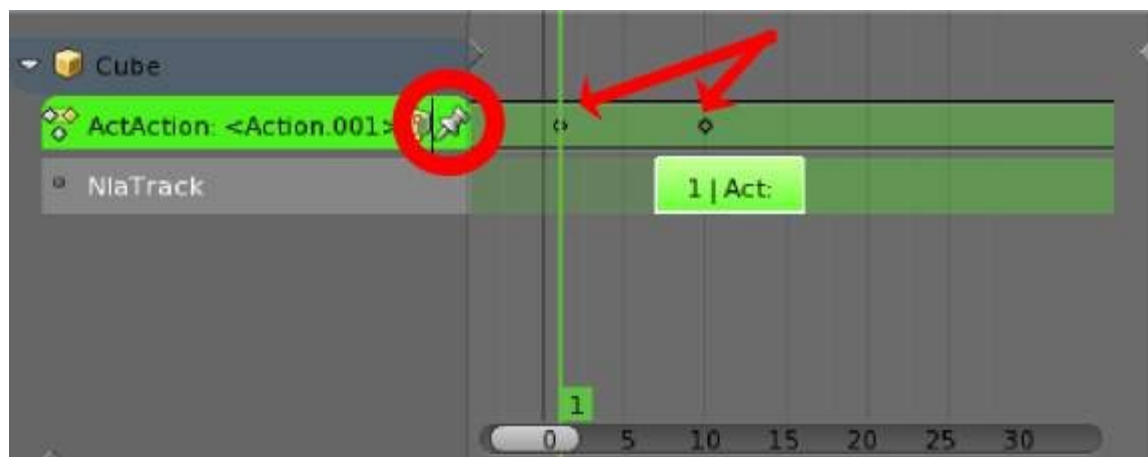
If you try moving the strip, while in edit mode, you'll notice that the keys will go along with it. On occasion, you'll prefer the keys to remain on their original frames, regardless of where the strip is. To do so, hit the 'unpin' icon, next to the strip.



Nla strip with pinned keys.



Strip moved, notice the keys move with it.



The unpinned keys return to their original frames.

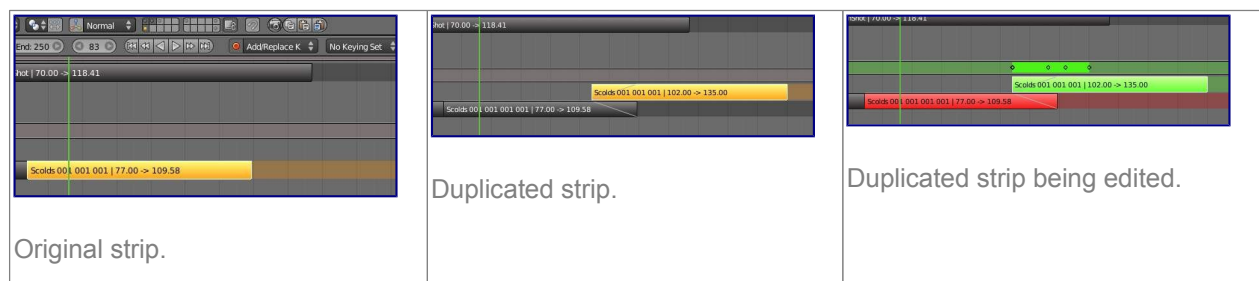
When your finished editing the strip, simply go to View > Exit Tweak Mode. Note the default key for this is Tab.

Re-Instancing Strips

The contents' of one Action strip can be instanced multiple times. To instance another strip, select a strip, go to Reference

Menu: Edit-> Duplicate Strips

Now, when any strip is tweaked, the others will change too. If a strip other than the original is tweaked, the original will turn to red.



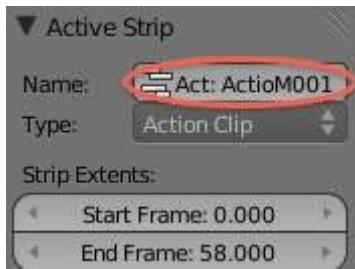
Strip Properties

Strip properties can be accessed via the NLA header.

Reference
Menu: View-> Properties

Renaming Strips

All strips can be renamed, in the “Active Track” section in the Strip Properties.



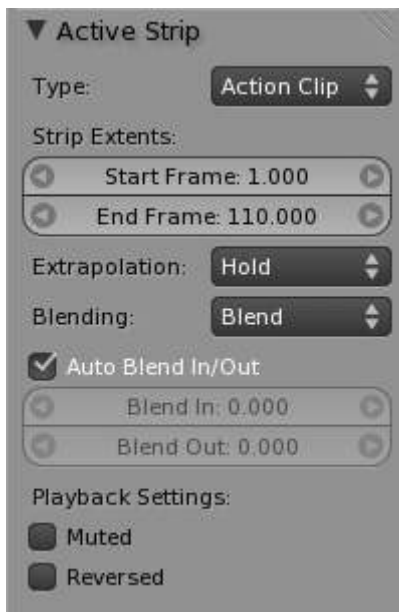
Active Track

This is which track the strip currently belongs to.



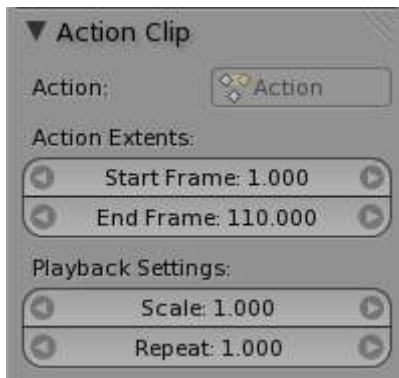
Active Strip

Elements of the strip itself. An Action Strip can be either an Action Clip, or a Transition Clip. Note that the 'Strip Extents' fields determine strictly the strip, and not the action. Also, the "Hold" value in the Extrapolation section means hold both beginning, and after. This can cause previous clips to not work, if checked.



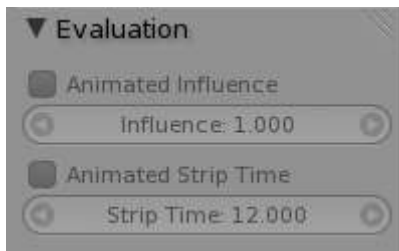
Active Action

This represents the 'object data' of the strip. Much like the transform values of an object.

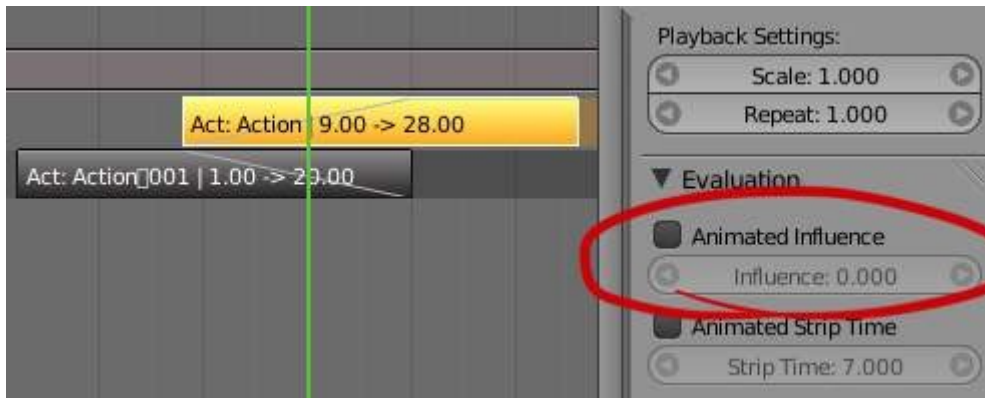


Evaluation

This determines the degree of influence the strip has, and over what time.



If influence isn't animated, the strips will fade linearly, during the overlap.



Strip Modifiers

Like its close cousins in mesh and graph editing, Modifiers can stack different combinations of effects for strips. Obviously there will be more to come on this.

