# **Very Animation**



Version 1.3

### Introduction

Thank you for purchasing "Very Animation".

This asset is an editor extension for editing animation.

It is characterized by direct editing of animation of Mecanim Humanoid which is usually difficult to edit with Unity.

It corresponds to the operation of GameObject with Animator or Animation component.

That is, it corresponds to 'Union's Animation Type' Humanoid ',' Generic 'and' Legacy '.

In order to directly edit animation data, knowledge of Unity's Animation is necessary.

We especially recommend you check the documentation of Unity's Animation Window curve and key frame operation.

Below are links to official reference materials that we recommend you familiarize yourself with in advance.

#### Unity User Manual

https://docs.unity3d.com/2021.3/Documentation/Manual/AnimationSection.html

#### The definitive guide to animation in Unity

https://unity.com/resources/definitive-guide-animation-unity-2022-lts-ebook

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# **Quick Start**

Import the asset from the asset store.

Open the Main window from Window/Very Animation/Main.

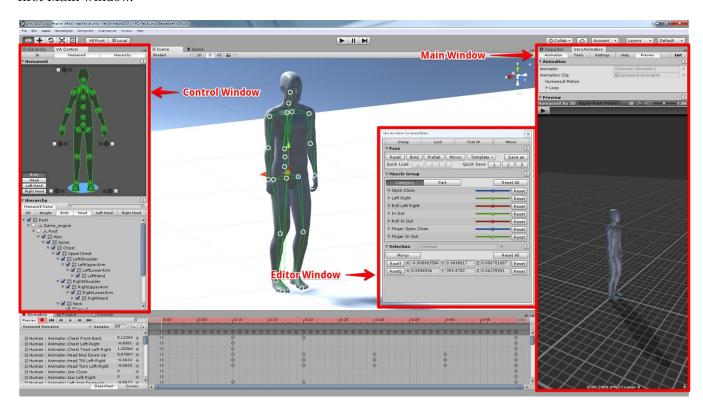
It is necessary to open the Animation Window of Unity.

Select the GameObject that contains the Animator component you want to edit.

Animation currently selected in the Animation Window will be edited.

Select 'Edit Animation' to start edit mode.

When entering edit mode, two windows of Control window and Editor window are added in addition to the first Main window.

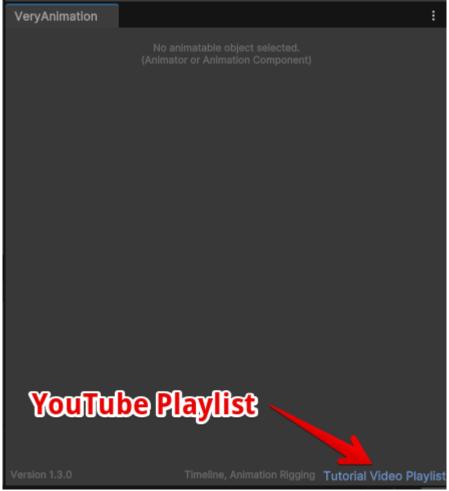


Edit animation by operating three windows and Unity's Animation Window.

### Video

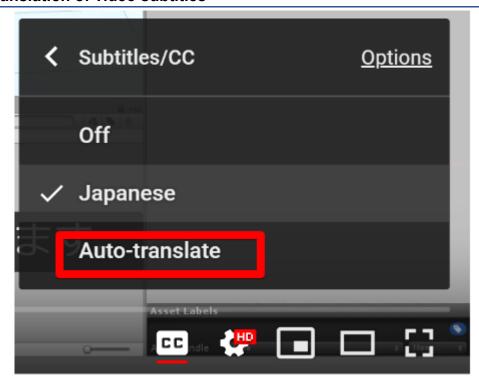
Quick Start

# **Tutorial Video Playlist**



You can open a playlist of tutorial videos from the link in the bottom right of the main window.

# Automatic translation of video subtitles



Japanese subtitles are set for the video.

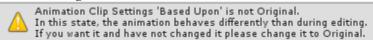
Please translate to English etc. with the function of automatic translation.

#### Create a new animation

Create Animation and register it in Animation Controller. Select the added Animation in the Animation Window and start editing.

# Caution

Please pay attention to this warning.



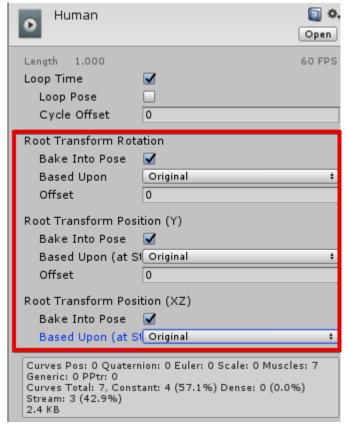
If you actually use the created AnimationClip and the position and rotation are different, please check the following settings.

Because the default Base Upon setting is not Original, it may be the cause.

Also, if you do not use RootMotion, enable Bake Into Pose.

As an example, this setting is the same as when editing the image below.

Since this setting is not displayed unless the AnimationClip has Root information, it will be set after animation editing.

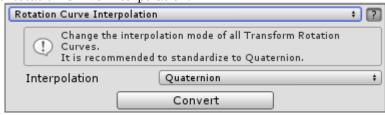


#### Video

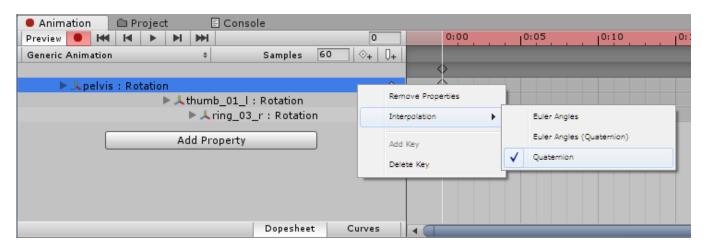
Quick Start
Animation Clip Settings

#### **Editing animations created with Unity or other assets**

We recommend that you unify the rotation interpolation first only once before starting editing. This is done from Tools/Rotation Curve Interpolation.



Change the interpolation method of Transform Rotation Curve all at once.



This is the setting above.

Since animation created with other assets or Unity may be other than Quaternion, we recommend that you run once and unify it to Quaternion.

#### Video

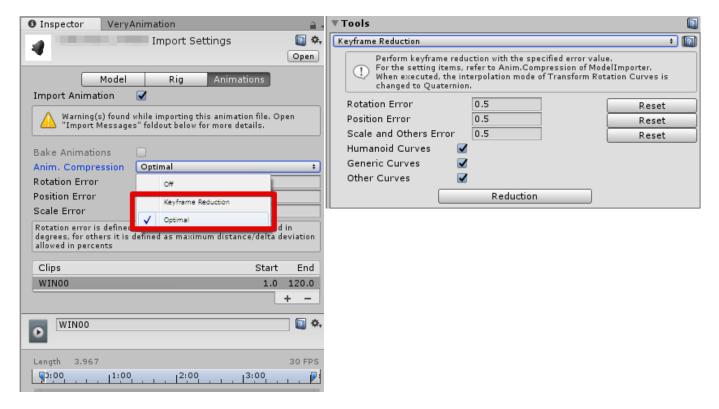
Edit created animation

#### **Edit external source animation**

Since animation included in FBX etc. is read only, duplicate it and edit it as another animation.



A warning will appear when you start editing. Replace duplicates and references from buttons. Once you have decided on the Clip to create, you will be asked to choose whether to delete unnecessary curves and unify rotation interpolation.



It is recommended to reduce keyframes before editing with ModelImporter before duplication or Tools / Keyframe Reduction after duplication.

This is because fewer keyframes are faster and easier to edit

#### Video

Edit external source animation Root Correction

#### Save data



When you finish editing, the VeryAnimationSaveSettings component is added to the GameObject with Animator.

This is the saved data of the setting being edited.

If you do not need it you can disable it from Settings. However, the setting is reset each time.

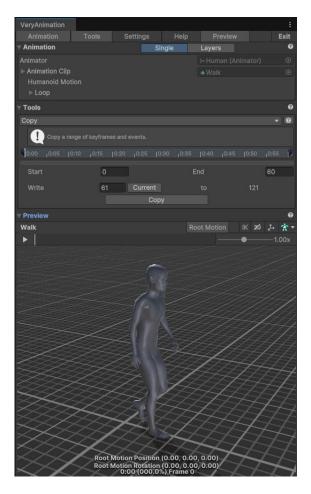
You can also delete all VeryAnimationSaveSettings in the project in the Tools Window.

Information does not almost remain in the build.

# Window

### **Main Window**

Switch the displayed content with the above tool bar.



# Animation

The information currently being edited is displayed.

### **Tools**

Run the editing tool. Details are described below.

# Settings

It is operation setting.

# Help

Help for shortcut keys and so on.

# Preview

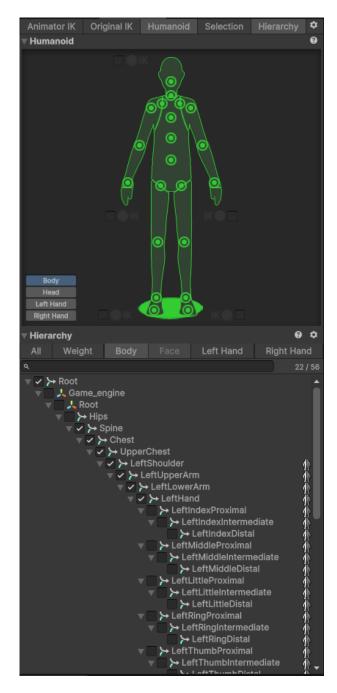
A preview of the current animation will be displayed.

# Exit

Exit editing.

# **Control Window**

Switch the displayed content with the above tool bar.



# Animator IK (Only Humanoid)

Animator IK switching and setting.

# Original IK

Original IK switching and setting.

# Humanoid (Only Humanoid)

Select Bone or switch IK.

# Selection

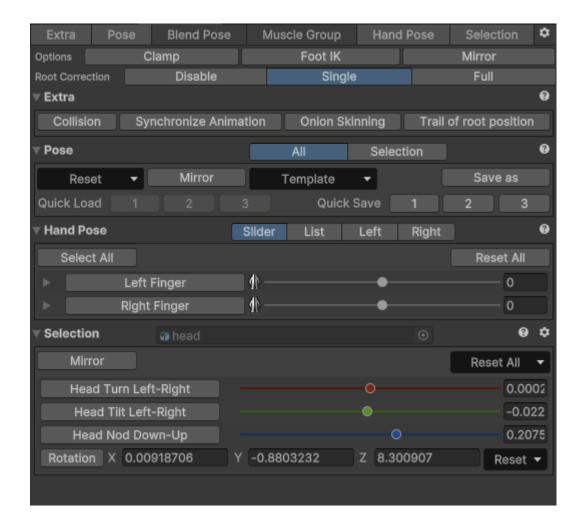
You can save the selected state of the bone with a name.

Change lists such as addition and deletion Switch Popup according to the purpose only to use and list.

*Hierarchy*Display hierarchical structure.

You can switch the display of each bone.

#### **Editor Window**



#### Extra

Collision	Make a collision decision between the mesh vertex being edited and the mesh triangle of the environment.  It is a very heavy process and should only be enabled if necessary.  It is recommended to use in .NET 4.x environment to enable acceleration of parallel processing.
Synchronize Animation	This function allows you to simultaneously animate objects in the scene that you are not editing. Use this to coordinate animations between multiple objects.
Onion Skinning	This function displays the time situation before and after the pause you are editing semi-transparently.
Trail of root position (Only Humanoid)	Displays the locus of the center of mass (Root) of the Humanoid.

Collision
Synchronize Animation
Onion Skinning

**Options** 

Clamp (Only Humanoid)	We limit the value of Muscle to the range set by Avatar. This prevents the joint from turning to an incompetent angle as the human body.
Foot IK (Only Humanoid)	Updates the Foot IK information at the same time when the key frame is changed. It is mainly used for editing in Timeline.
Mirror	When changing, update the information on the opposite side at the same time.

Root Collection (Only Humanoid)

<i>u</i>	
Disable	No correction is made.
Single	It corrects only the changed frame.
Full	Corrects all frames that are affected before and after the change.

**Root Correction** 

### Pose

Reset	Reset to various poses.
Mirror	Changes the current pose to the left and right reversed state.
Template	Change to the saved pose.
Save as	Save the current pose to a file.
Quick Load / Save	It is used to save and load temporary poses. This information will be deleted when you finish editing.

### Blend Pose

Blend and apply two saved poses.

By applying only a portion of it, you can reuse only the facial expression, finger shape, etc. Blend Shape

# Muscle Group (Only Humanoid)

We will change Muscle collectively.

# Hand Pose (Only Humanoid)

It is a function specialized for hand operation from Muscle Group.

# Blend Shape (Only when there is Blend Shape information)

Operate Blend Shape.

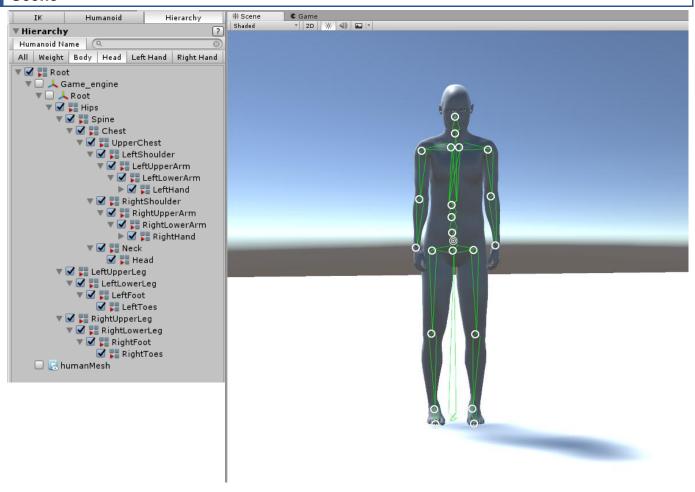
Blend Shape

# Selection

The selected information is displayed.

### **Basic operation**

#### Scene



Scene shows only bones that are checked by Hierarchy.

You can select by pressing each button.

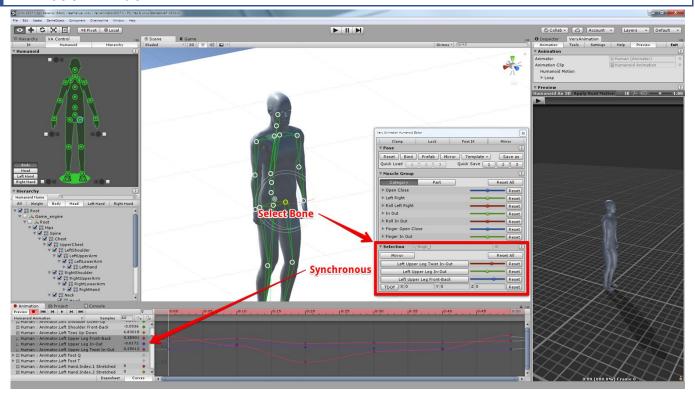
By clicking the mesh, a suitable bone is selected from the weight and distance of the clicked polygon.

As a common action in Very Animation, select all descendants by holding down the Alt key and selecting.

#### Video

Basic Operation 1
Basic Operation 2
Basic Operation 3

### **Animation Window**



Animation Curve according to the selected bone and the current tool is selected in the Animation Window. By pressing each button in Editor's Selection, you can change to display only that Animation Curve.

#### Humanoid

#### **Animation Curve**

Humanoid manipulates Animation Curve of Animator's data.

The following explanation is personal guess, there is a possibility of error.

Animation Curve	Description
RootT, RootQ	Mass center position, rotation Root motion position, rotation
Muscle	It corresponds to the rotation of each Bone
TDOF	It exists only in part Bone. Equivalent position It is used only when 'Translation DoF' is enabled in Configure Avatar
Hand IK, Foot IK	Hand IK is unclear where to use, Foot IK is used to counter shake of the foot when AnimationState.iKOnFeet is enabled
MotionT, MotionQ	Position of root motion, rotation specification If it exists, it takes precedence over RootT, RootQ information
A free name that does not conflict with the above	Used in Parameter related curve

A Bone (such as a hair) not set as Avatar as a humanoid manipulates the Transform in the same way as Generic.

#### Mecanim

In Humanoid, animation of Animator parameters of Root and Muscle is mainly created, and Animator updates Transform with that parameter.

In Very Animation, it is possible to operate like ordinary animation FK, but when animation editing, it is necessary to be conscious that each part of Humanoid has mass.

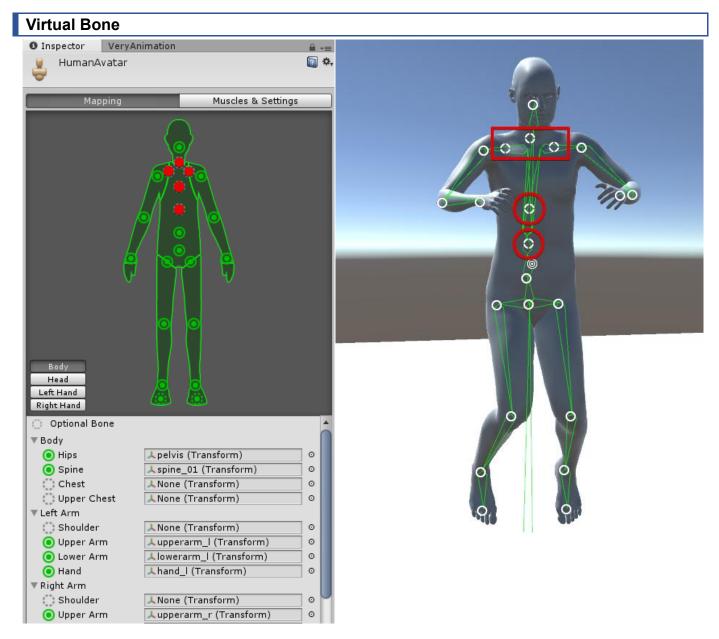
For example, moving only arms and legs means that the center position of the mass changes.

#### Reference data

Unity Blog 'Mecanim Humanoids'

The English version of the above link has disappeared. Please see the Japanese version below.

Mecanim Humanoid の基礎的技術解説



Some Optional Bones not set in Avatar are displayed as Virtual Bones. You can operate in the same way as normal bone, but there are some restrictions, such as local rotation operation only.

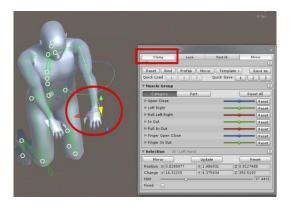
#### **Animator IK**



In Humanoid you can use IK using the function of Animator. Select Control Window or Bone and switch with I key.

IK in VeryAnimation is a function to assist editing.

The information to be saved is the same information as FK, and IK key frame information etc. are not saved.



When Clamp is enabled, depending on the model, it may not be possible to extend the hand straight. In that case, cancel Clamp and set it.

# Video

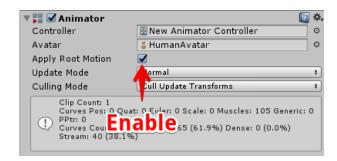
**AnimatorIK** 

# Original IK

Very Animation We will set up our own IK. For details, refer to the 'Original IK' chapter.

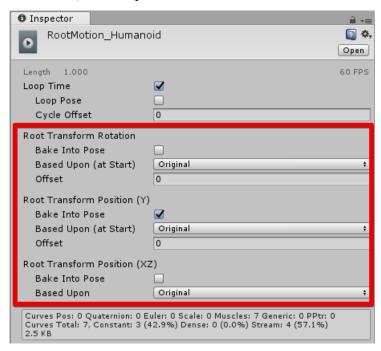
#### Root Motion (Operation when a Motion curve is not created)

Enable 'Apply Root Motion'.



If no motion curve has been created, the root motion will operate with the information of the root curve (RootT, RootQ)

AnimationClip display is as follows, and the part where 'Bake Into Pose' is not enabled works.

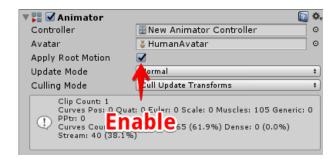


#### Demo

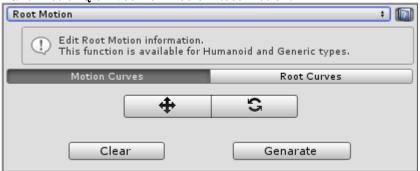
VeryAnimation\Demo\RootMotion

#### Root Motion (Operation when creating a Motion curve)

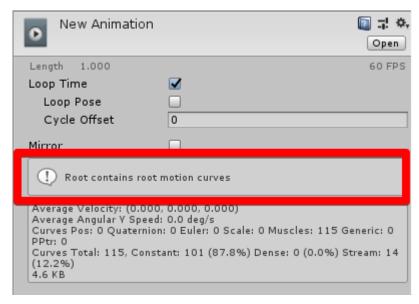
Enable 'Apply Root Motion'.



You can edit MotionT and MotionQ curves from Tools / Root Motion.



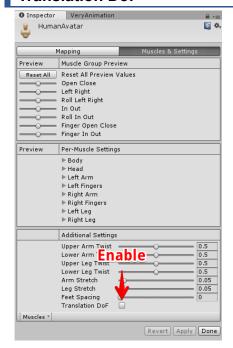
If a Motion curve exists, the root motion will operate with this information preferentially. AnimationClip display is as follows.

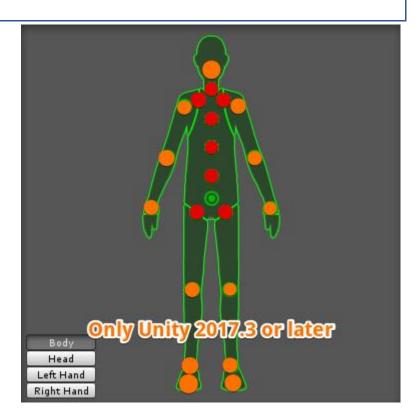


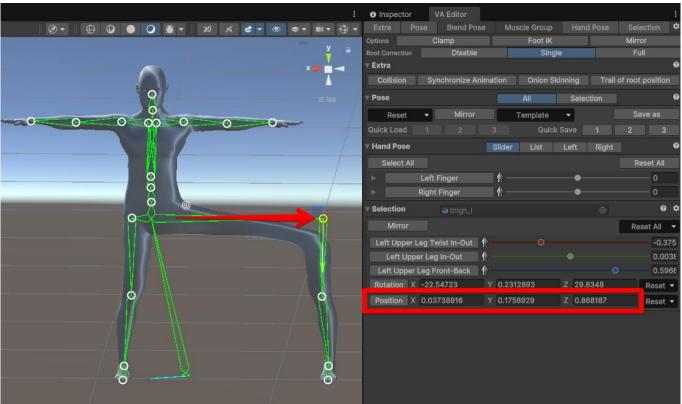
#### Demo

VeryAnimation\Demo\RootMotion

#### **Translation DoF**







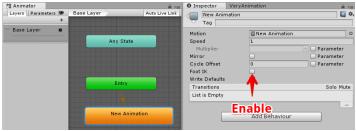
Only when you enable 'Translation DoF' in Configure Avatar, position change will be effective with some bones.

#### **Foot IK**

Humanoid animation is the same animation in models with different proportions, but there are problems such as shaking feet.

It is information to correct this problem correctly and correct it to the original position correctly. For reasons such as not using Root Motion, this information is unnecessary unless you use this function. It is used in the following places.

#### AnimatorState

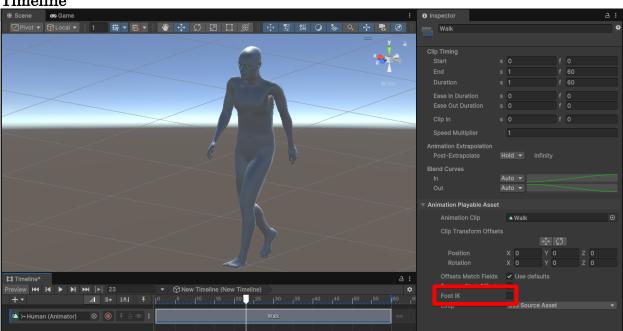


AnimationState.iKOnFeet

#### **Preview**



#### Timeline



Note that it is enabled by default in Timeline.

Very Animation usually edits the animation with Foot IK invalid state, and finishes editing and finally creates an animation curve with Tools / Humanoid IK. Then activate Foot IK and check the operation.

# Demo

 $Very Animation \\ \\ Very Animat$ 

# Video

Foot IK

# **Generic and Legacy**

### **Animation Curve**

Generic and Legacy mainly manipulates Transform's Animation Curve.

Animation Curve	Description
Position	Position
Rotation	Rotation
Scale	Scale

We will also manipulate some Animator's Animation Curve.

The following explanation is personal guess, there is a possibility of error.

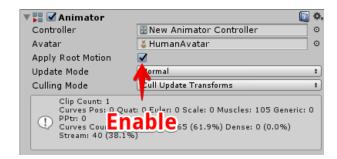
Animation Curve	Description
RootT,RootQ	Root motion position, rotation
MotionT,MotionQ	Position of root motion, rotation specification If it exists, it takes precedence over RootT, RootQ information
A free name that does not conflict with the above	Used in Parameter related curve

# Original IK

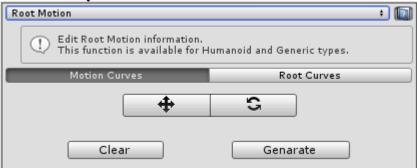
Very Animation We will set up our own IK. For details, refer to the 'Original IK' chapter.

#### **Root Motion (When creating a Motion curve)**

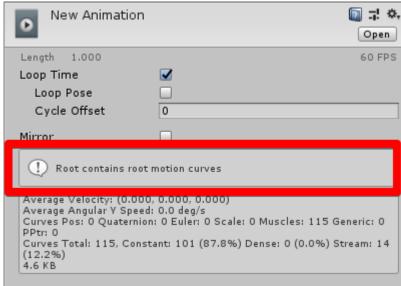
Enable 'Apply Root Motion'.



You can edit MotionT and MotionQ curves from Tools / Root Motion.



If a Motion curve exists, the root motion will operate with this information preferentially. AnimationClip display is as follows.

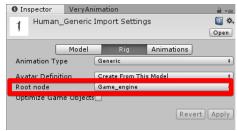


This method is recommended.

#### Demo

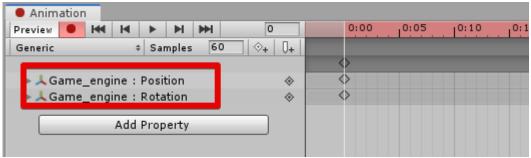
VeryAnimation\Demo\RootMotion

#### Root Motion (when there is a Root Node specified in Avatar such as Model)

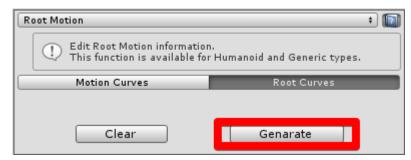


You need to set Root Node in Model Importer.

Usually the children of the object where the Animator component is located selects the object at the root of the branch.

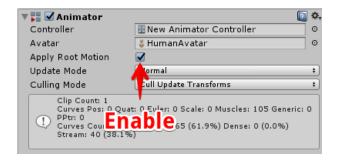


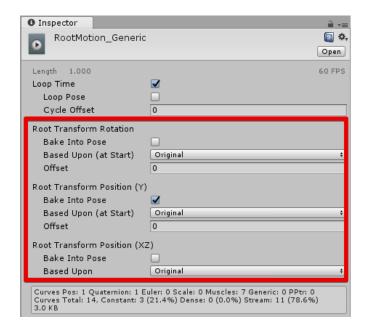
Manipulates the bone specified in Root Node and creates an animation.



Press the Generate button from Tools / Generic Root Motion after creating the animation.

This will create an animation curve for RootT and RootQ.





Generic root motion works with the above Animator and each Animation Clip setting. Please check the Unity documentation for details.

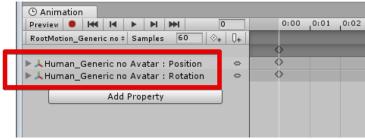
#### Demo

VeryAnimation\Demo\RootMotion

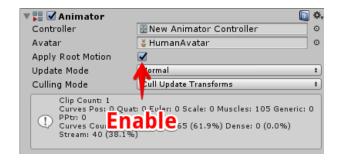
#### Video

Generic Root Motion

#### Root Motion (No avatar or Root Node not specified)



Create Animation Curve in Root.



Generic root motion works with the above Animator and each Animation Clip setting. Please check the Unity documentation for details.

However, in this method, when you enter editing at runtime, the position will be restored. Also, the Exporter does not output Root Motion information.

These operations can not be supported and are therefore specifications.

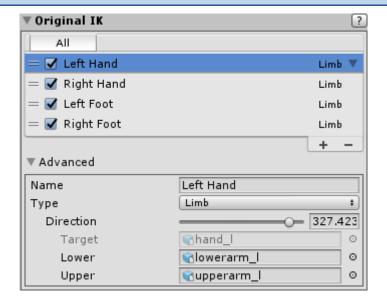
#### Demo

VeryAnimation\Demo\RootMotion

#### Video

Generic Root Motion

# **Original IK**



It is original IK of Very Animation.

It is added by selecting the bone which becomes the tip and pressing the add button, or pressing the I key.

If it already exists in the list, the valid state changes with the I key.

Select from multiple operation types.

IK in VeryAnimation is a function to assist editing.

The information to be saved is the same information as FK, and IK key frame information etc. are not saved.

#### **Basic**

It is the most basic CCD-IK.

It can be used for things that rotate freely, such as hair.

You can change the hierarchy with Press Ctrl and + - key during selection.

#### Video

Original IK

#### Limb

Use it for limbs.

While selecting, you can change the direction of turning with Press Ctrl and + - key.

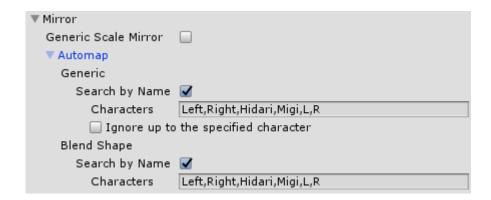
#### Video

Original IK 2

#### **Mirror**

The mirror of the Humanoid part selects the target from the information of Avatar, but the mirror of Generic and BlendShape guesses the target from the name and operates with Automap.

This can be changed in Settings.

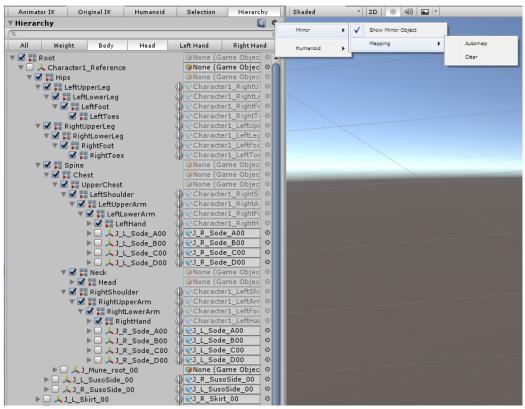


#### Generic

By default the name is valid only if the full path from Root is only the difference between 'Left', 'Right', 'Hidari', 'Migi', 'L', 'R'.

To add a condition, please add it to the beginning.

If it is not successfully set, Mirror's function will not work properly.



If you do not set it correctly with Automap, change it manually or change the setting and redo the Automap from Hierarchy setting.

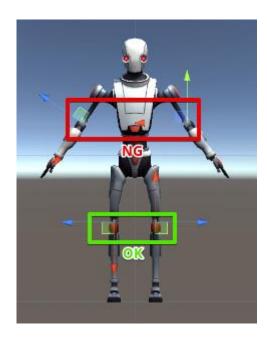
### **Mirror Scale**

Scale mirrors are not enabled by default.

If you enable "Generic Scale Mirror", Scale will work with Mirror's behavior.

In order for Mirror to work properly with Scale, it is necessary that the axis of the corresponding Bone is symmetrical as shown in the image below.

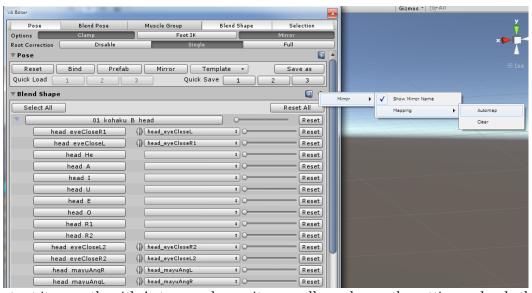
There is no problem with the difference in the direction of the axis or the axes of X and Z are exchanged. If the axis is misaligned as in the example of NG, it will not work properly when Scale is applied with Mirror.



#### **BlendShape**

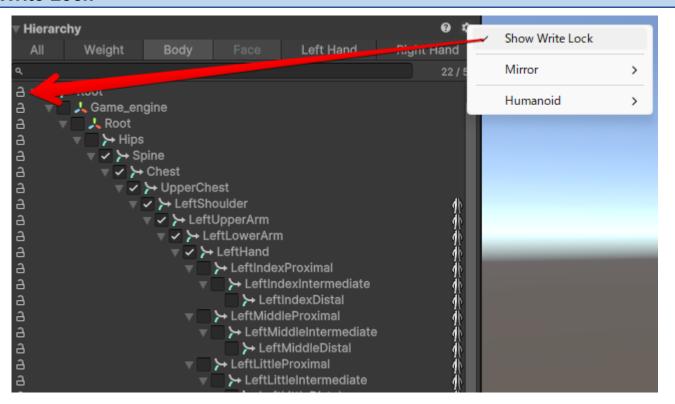
By default, the name is valid only if the difference is 'Left', 'Right', 'Hidari', 'Migi', 'L', 'R'. To add a condition, please add it to the beginning.

If it is not successfully set, Mirror's function will not work properly.



If you do not set it correctly with Automap, change it manually or change the setting and redo the Automap from the setting icon of BlendShape.

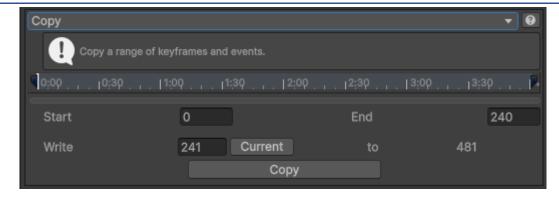
## **Write Lock**



You can display a function in the Hierarchy that prevents curve updates to bones. Locking will prevent information from being updated through handle manipulation, etc.

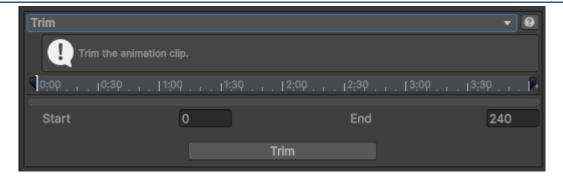
## **Tools**

# Сору



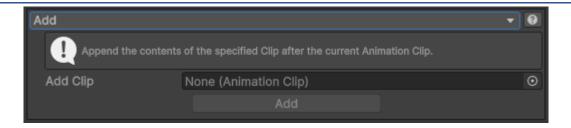
Copy the keyframe.

## Trim



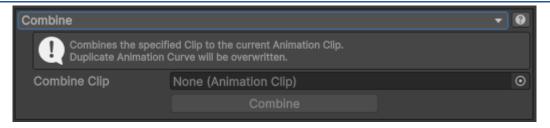
Trim animation clip.

## Add



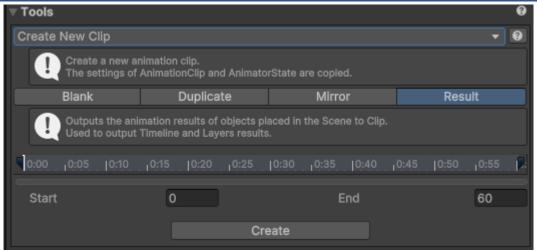
Add an animation clip to the back.

### Combine



Combine the animation clips.

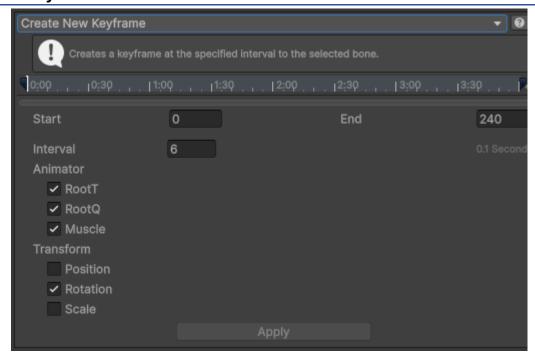
### **Create New Clip**



Create a new Clip.

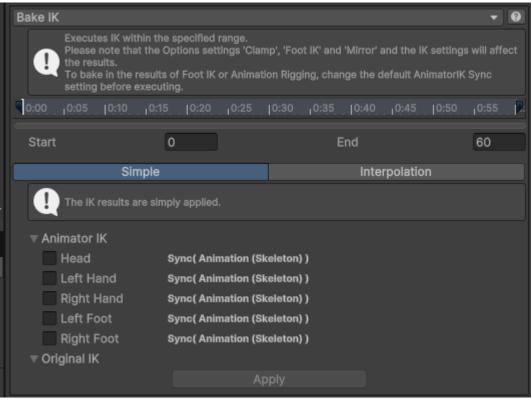
It inherits the settings of the AnimationClip being edited and creates it.

## Create New Keyframe



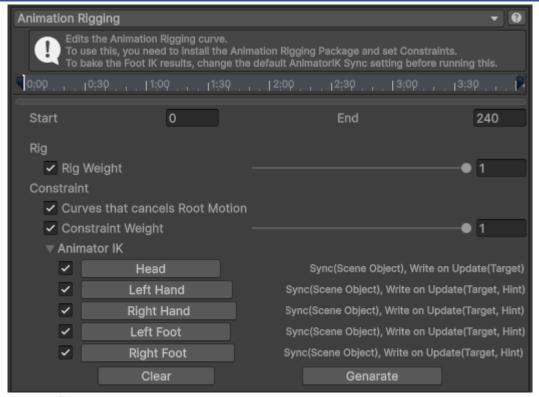
Creates new keyframes on selected bones at regular intervals.

#### **Bake IK**



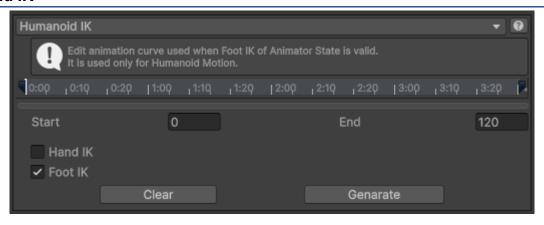
IK is executed within the specified range.

### **Animation Rigging**



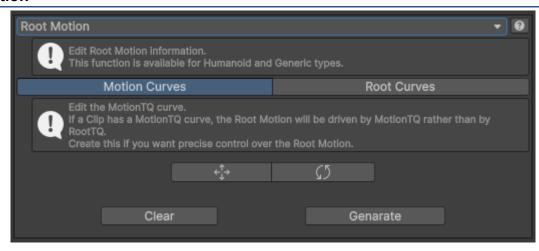
Edit the Animation Rigging curve.

#### **Humanoid IK**



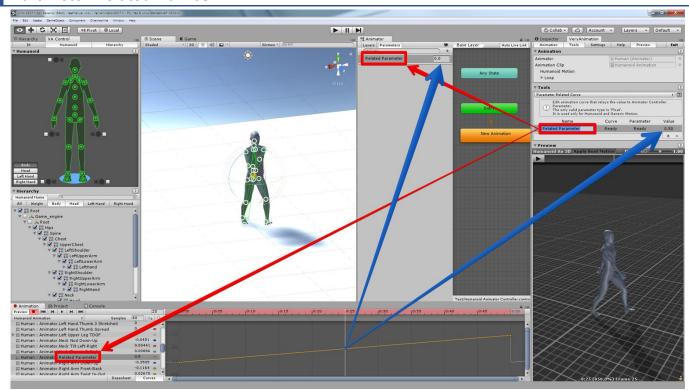
See Humanoid / Foot IK.

# **Root Motion**



Edit the animation curve for Root Motion.

#### **Parameter Related Curves**



This manages the information for using the Animator mechanism where the Animation Curve value is set to the Animator Parameter.

If a Parameter and Curve have the same name, the Animation Curve information will be received as a Float Parameter at runtime.

This is usually equivalent to the information set in 'Animations/Curves' of Unity's Model Importer.

For a more detailed explanation, please refer to the Unity documentation below.

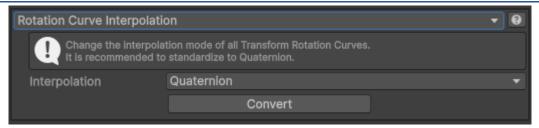
### Reference data

Animation curves and animator controller parameters

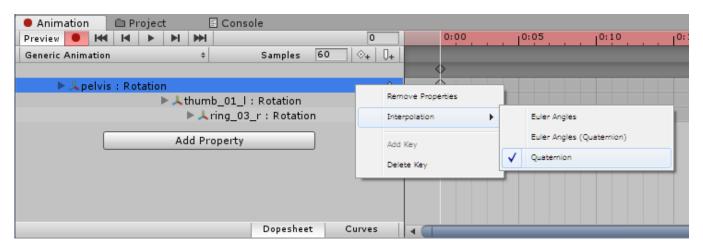
### Demo

VeryAnimation\Demo\ParameterRelatedCurves

#### **Rotation Curve Interpolation**



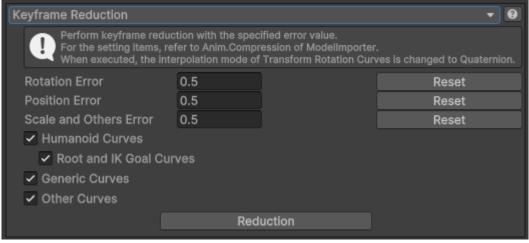
Change the interpolation method of Transform Rotation Curve all at once.



This is the setting above.

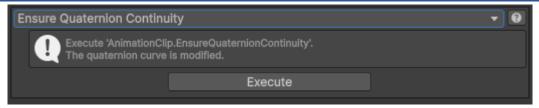
Since animation created with other assets or Unity may be other than Quaternion, we recommend that you run once and unify it to Quaternion.

## **Keyframe Reduction**



Reduce the keyframes.

#### **Ensure Quaternion Continuity**

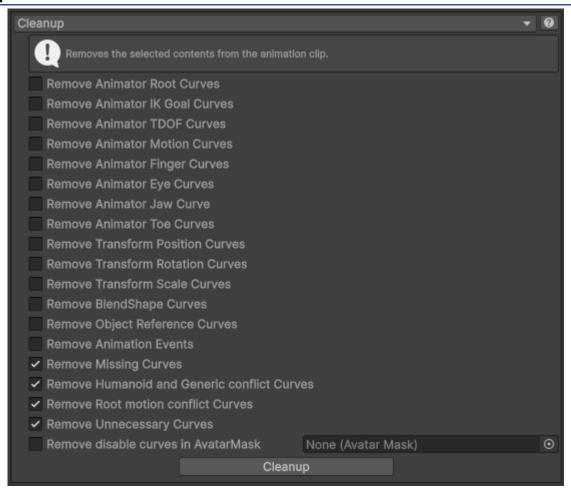


Call AnimationClip.EnsureQuaternionContinuity.

It is recommended that you call it after changing the animation curve.

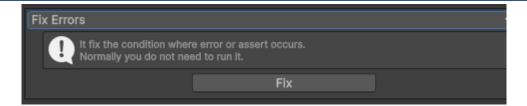
However, there may be a slight change in the curve, so Very Animation calls it arbitrarily here.

#### Cleanup

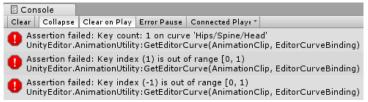


Delete unnecessary curves and so on.

### **Fix Errors**



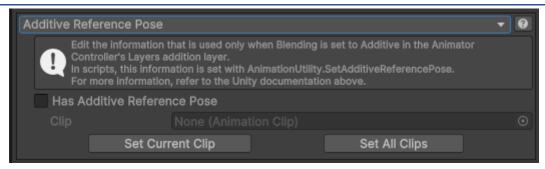
Correct the error or warning status.



Normally you do not need to run it.

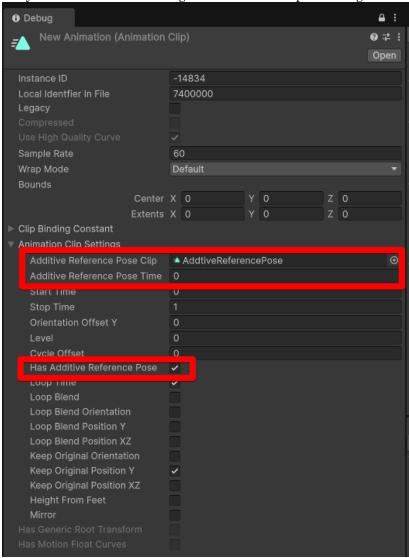
When editing, you can modify data that got warning like the above.

#### **Additive Reference Pose**

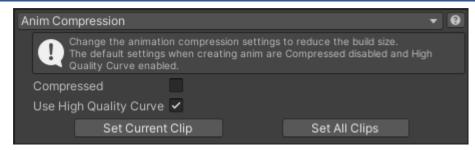


Edit the reference pose settings used by the additive layer.

This information can only be viewed when viewing the AnimationClip in Debug mode.



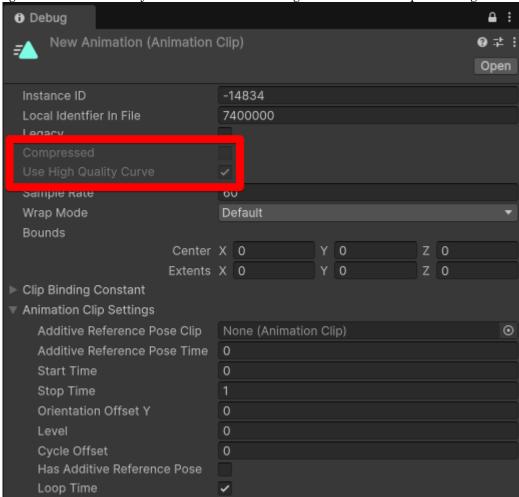
#### **Anim Compression**



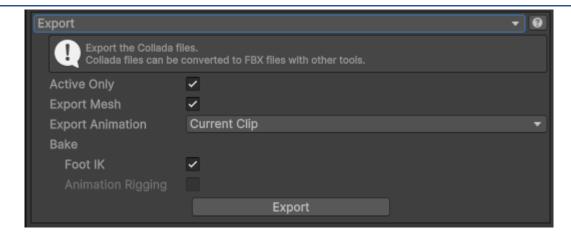
Change the compression settings to reduce the build size.

For newly created anim files created in Unity rather than with the Model Importer, the compression settings cannot be changed directly, so change them here.

The following information can only be viewed when viewing the AnimationClip in Debug mode.



## Export



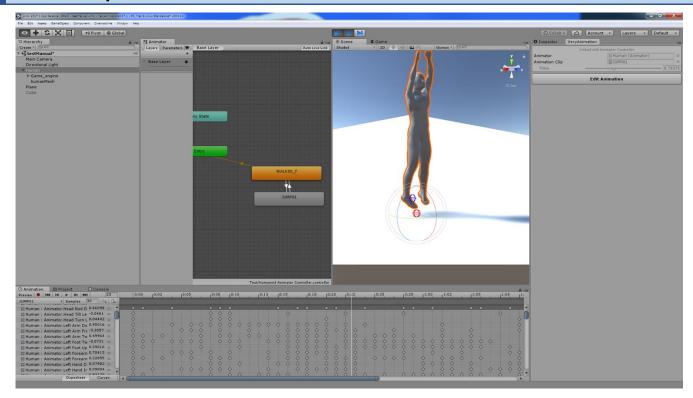
#### Collada (DAE) file is output.

The output mesh is reference information for animation confirmation.

To be displayed correctly, it will be changed to a hierarchy that can be output to Collada.

Therefore, there is a possibility that it changes from the hierarchy in Unity.

# Edit while paused



When pausing while editor is running and entering editing of Very Animation, editing starts from animation and time when stopped.

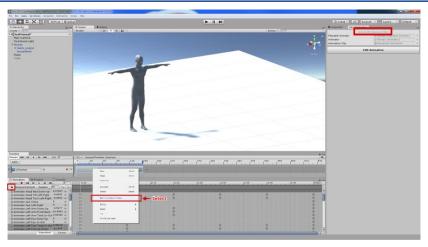
## Demo

VeryAnimation\Demo\Edit while paused

## Video

Edit while paused

# **Edit in Timeline**



Link the Timeline animation to the Animation Window and start editing.

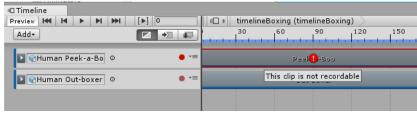
In Timeline, various types such as Foot IK and animation blend are displayed, and the Skeleton is displayed as it is in the Animation Clip.

# Video

**Timeline** 

### **Notes on Timeline**

# ·About warning in Unity 2018.1 or later



Such a warning is displayed in Unity 2018.1 or later, but it has no effect.

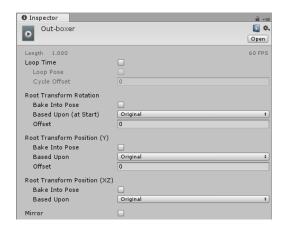
Since AnimationClip is updated with VA, it is possible to edit it like the previous version.

## ·Confirmation of Root Motion setting of Animation Clip

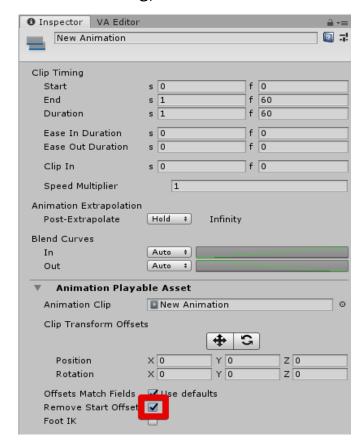
If you do not operate as intended by moving Root, check the setting of Animation Clip.

The default when you create a new Animation Clip contains the Based Upon setting and so on.

Please make sure it is plain like the setting below.



## ·Animation Playable Asset setting, Remove Start Offset

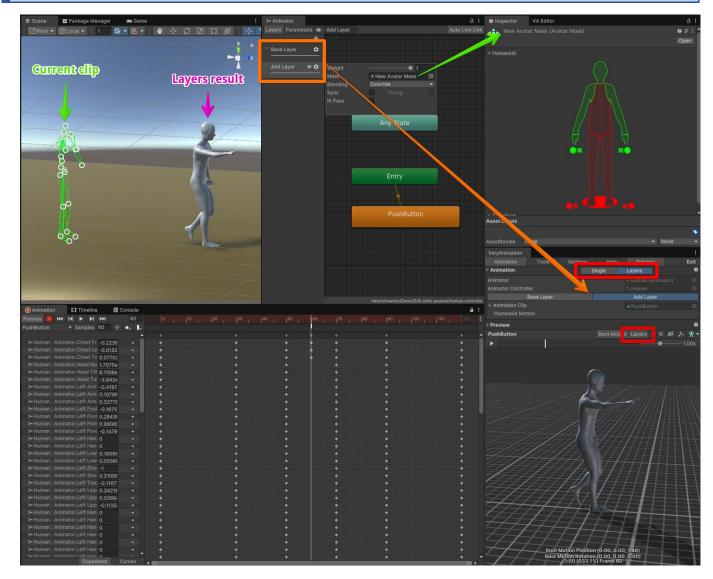


The Remove Start Offset flag is a function that makes the Root transform relative to the information of the first frame.

It has the same behavior as when the AnimationClip's Based Upon setting is not Original.

When enabled, there is an issue where the Skeleton's position may be shifted, so it is recommended that you disable it.

## Layers



This is an editing action with the Animator Controller's Layers settings applied.

You can preview and edit the animation of overwrite layers and additive layers with Weight and Avatar Mask applied.

In this state, just like with the Timeline, the skeleton that displays the contents of the current Clip alone and the final Layers model differ in results, so the skeleton position will be misaligned, but this is the correct result.

### Demo

VeryAnimation\Demo\AdditiveReferencePose

## Video

VeryAnimation -Layers 1 (Override)-

VeryAnimation -Layers 2 (Additive)-

## **Animation Rigging**

You can use it by installing it from Package Manager.

Please watch the video to see how it works.

## Video

VeryAnimation - Animation Rigging 1-

VeryAnimation -Animation Rigging 2 (Range Pinning)-

#### **Note**

There seems to be a problem that does not work properly with Humanoid that does not specify an optional bone such as UpperChest in Avatar Configure. Use a Humanoid with all optional bones specified.

There seems to be a problem that does not work properly in the model that contains a value whose Scale is not 1. Use a model where all Scales are 1.

When using Foot Constraint, enabling Foot IK reflects the result of Foot IK, so you need to disable Foot IK.

## **Tips**

Very Animation aims to operate at high speed.

However, there are many situations where the behavior of the editor becomes heavier when editing animation.

Therefore, we will introduce measures to make it operate as fast as possible during editing.

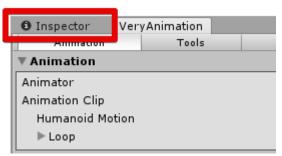
### **Use the latest Unity**

It is because it can be expected that performance improvement is included as new as new.

### Close the windows that you do not need

It becomes slow with unnecessary processing.

### **Hide Inspector**

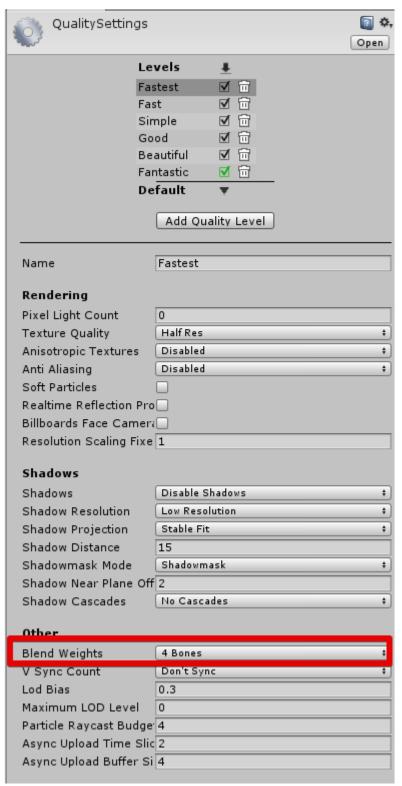


When Inspector is displayed, Repaint is done every time when editing, but it is slightly heavy, so it is suppressed by leaving it undisplayed.

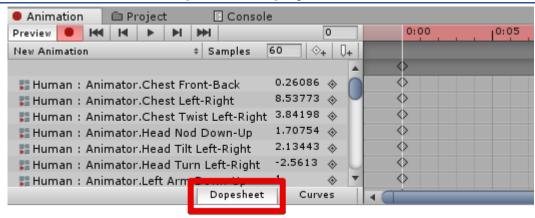
### **Confirm QualitySettings**

In a poor environment, the editing speed of the editor is greatly affected, so change the setting if it is heavy.

However, in order to edit the animation, we recommend that you change Blend Weights to '4 Bones' even if you make it fast.



#### **Change Animation Window to Dopesheet display**



Updating the Animation Window when changing keyframes is a particularly heavy process.

In the case of updating only the value of the key, in the case of Curves the display of the curve must be updated, but in the case of Dopesheet there is almost no change in the appearance so it is refraining from updating.

Due to this redrawing difference, there is a difference in speed with complicated animation.

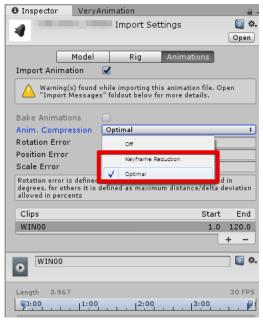
For this reason, Dopesheet display is better whenever there is no need to check the curve.

### Reduce keyframes



When changing the key frame value, it is updated in units of Animation Curve.

Therefore, the update time increases as the number of key frames increases.

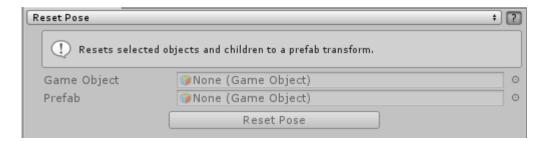


When fewer key frames are used, it is faster, so when editing an existing animation, it is recommended to first edit the model Importer 's Anim. Compression other than Off to reduce keyframes before duplicating and editing.

## **Tools Window**

Very Animation Executes an animation related tool to be executed if it is not being activated.

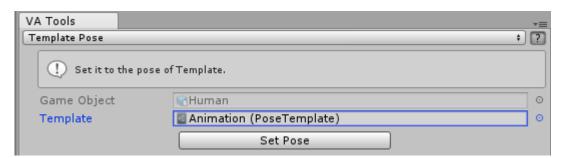
#### **Reset Pose**



Resets the selected object and its descendants to the prefabricated pose.

The Transform and BlendShape are changed.

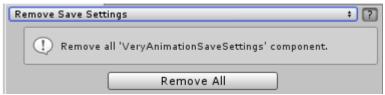
## **Template Pose**



Resets the selected object to the pose of Template.

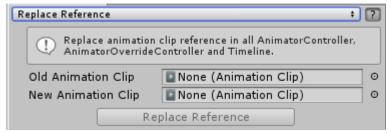
The Transform and BlendShape are changed.

### **Remove Save Settings**



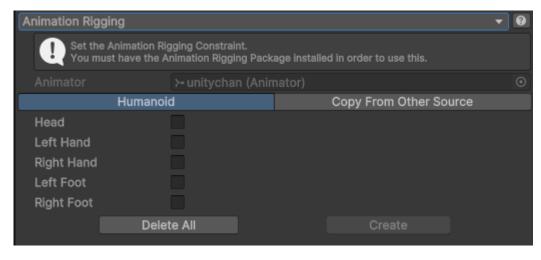
Delete all VeryAnimationSaveSettings from the project.

## **Replace Reference**



Replace reference of Animation Clip.

## **Animation Rigging**



This is a function to set up AnimationRigging for use with VeryAnimation.

# Support

## **Forum**

 $\underline{https://discussions.unity.com/t/very-animation-animation-editor-released/680371}$ 

# X(Twitter)

https://twitter.com/AlSoSupport

## Mail

support@alonesoft.sakura.ne.jp

## FAQ

http://alonesoft.sakura.ne.jp/VeryAnimation/support.html