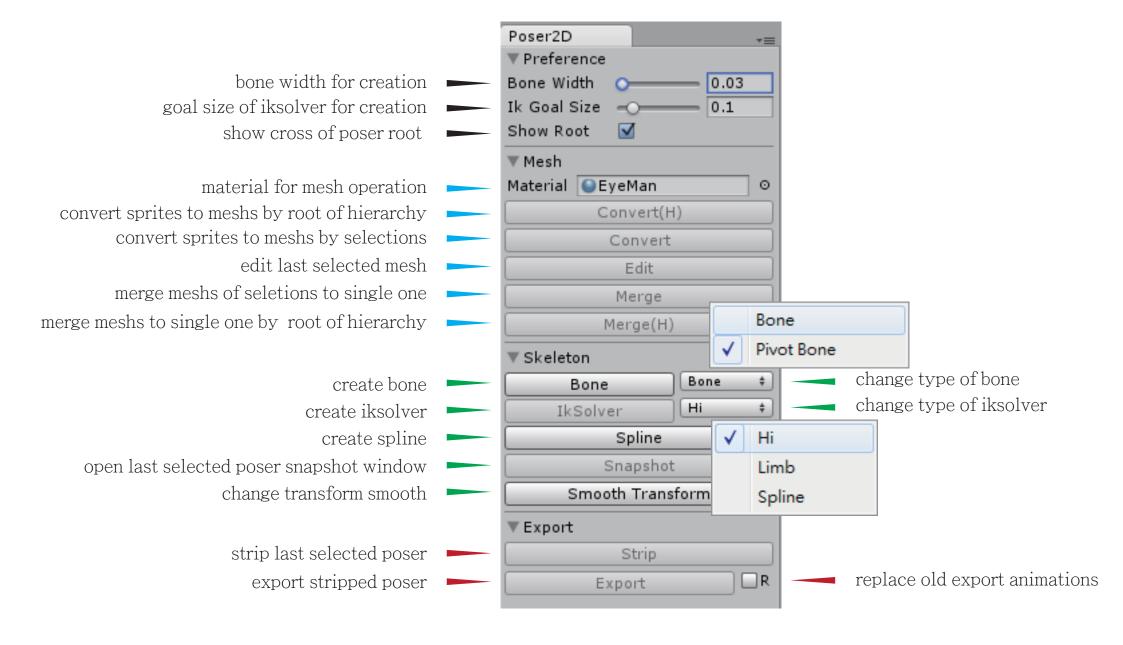


Contents

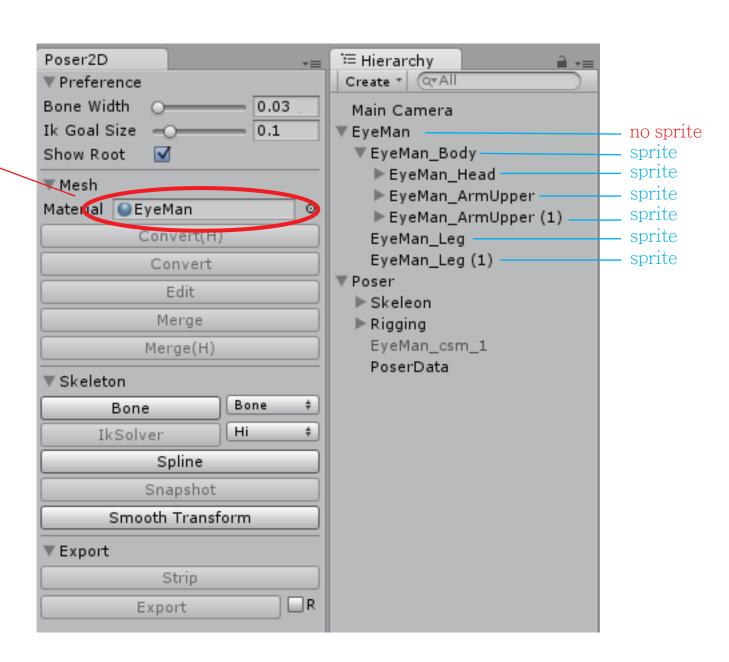
Poser2D Window
Mesh
Mesh - Convert05
Mesh - Edit
Mesh - Merge
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Skeleton - IkSolver
Skeleton - Spline
Skeleton - Snapshot
Skeleton - Smooth Transform
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SkinBoneWeights - Bone Picker
Bone, Pivot Bone48
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Poser2D Window



Mesh

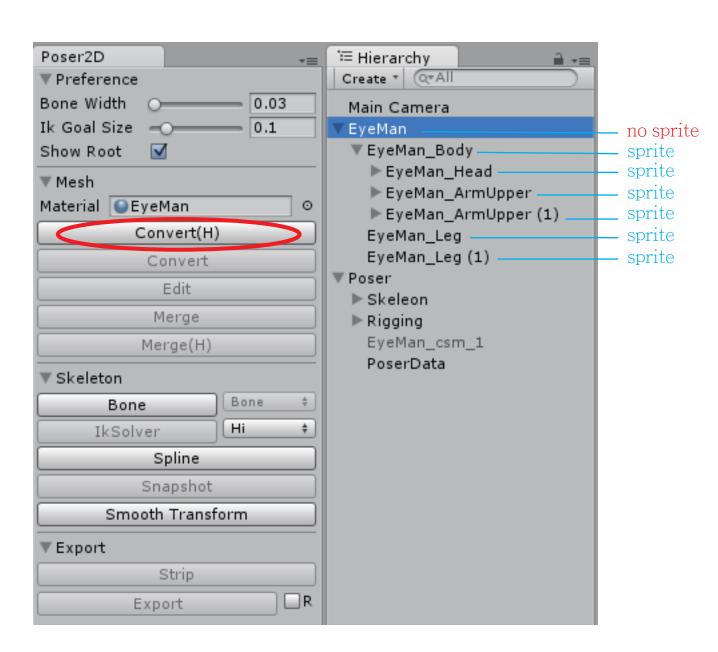
convert or merge mesh need a material for a operation



Mesh - Covert(H)

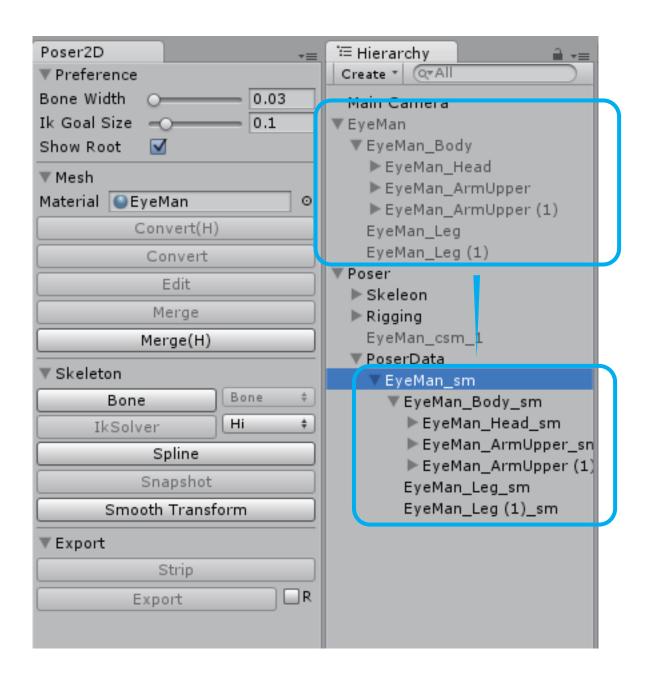
active button

there is at least one sprite in the last selection or children



Mesh - Covert(H)

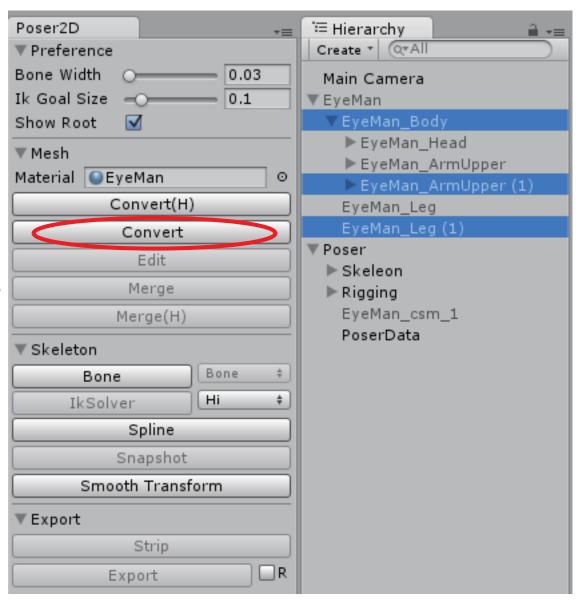
after click button, create a same hierarchy meshs and attach to PoserData



Mesh - Covert

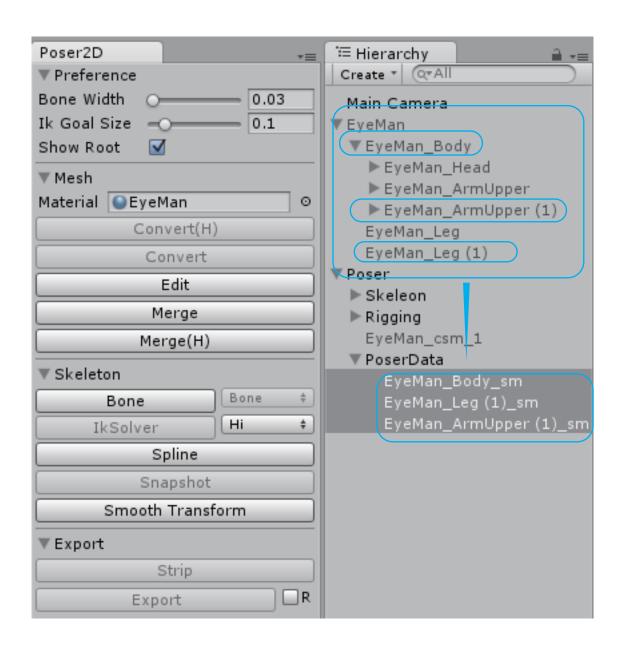
active button

there is at least one sprite in selections



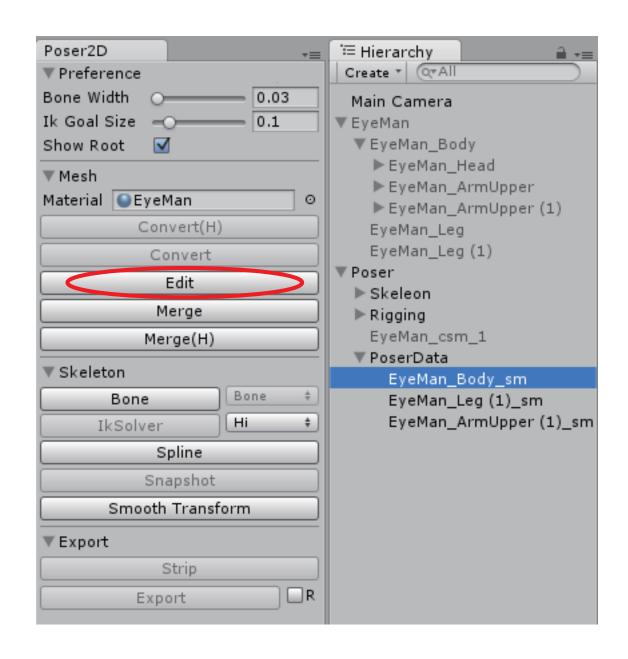
Mesh - Covert

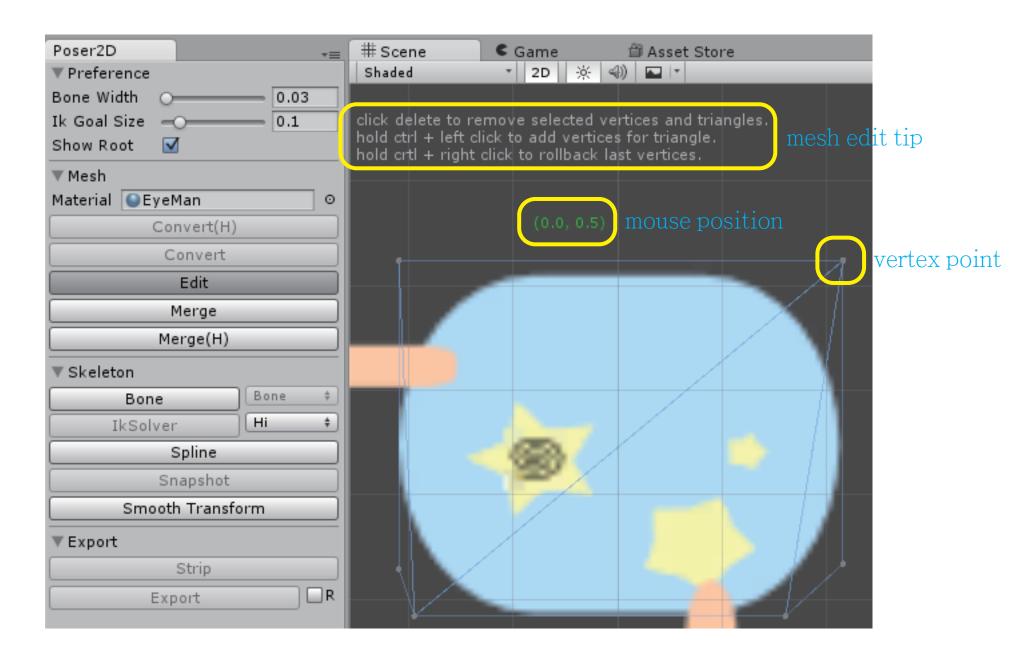
after click button, create meshs from selections and attach to PoserData



active button

there is a SkinBoneWeights in the last selection



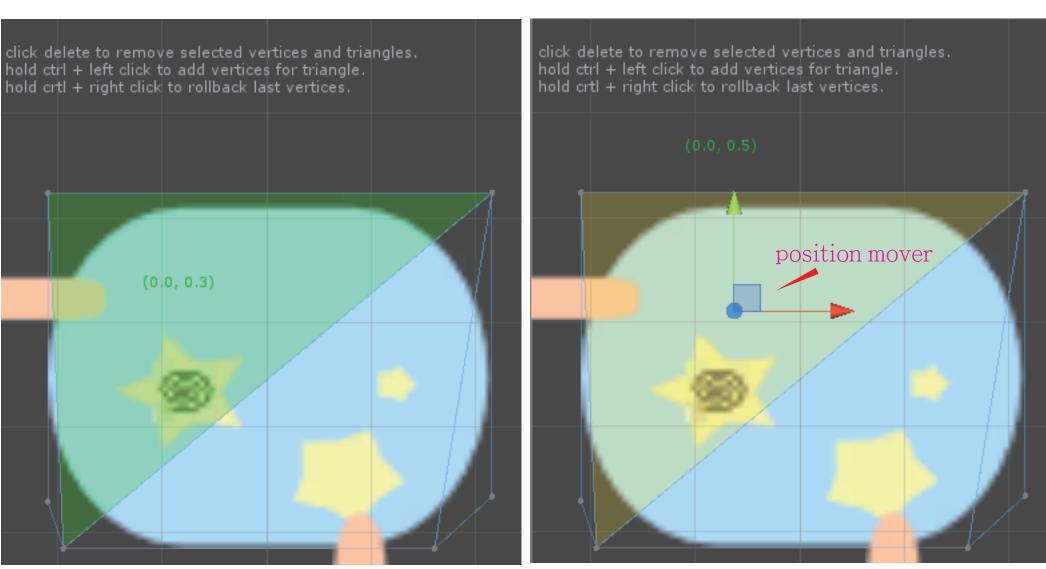


selected triangle could be moved by position mover.

press delete button to remove the selected triangle from mesh

mouse hover triangle

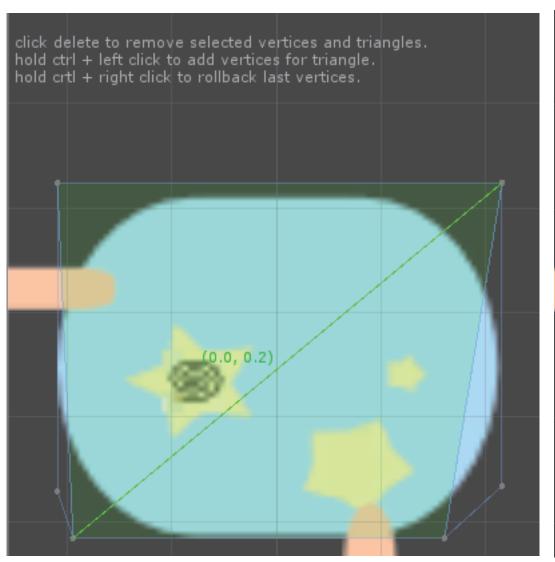
triangle be selected

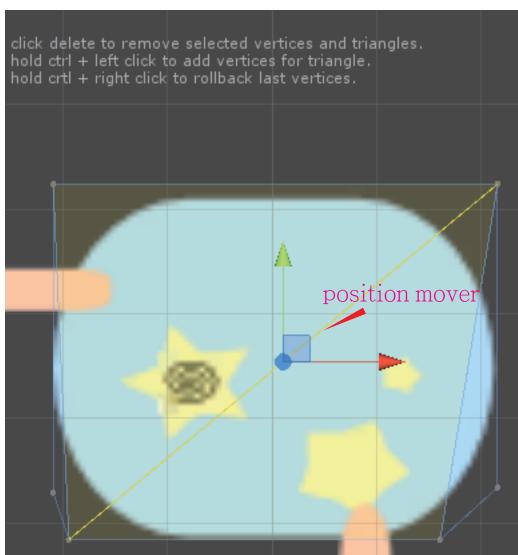


selected line could be moved by position mover.
press delete button to remove the selected line from mesh

mouse hover line

line be selected

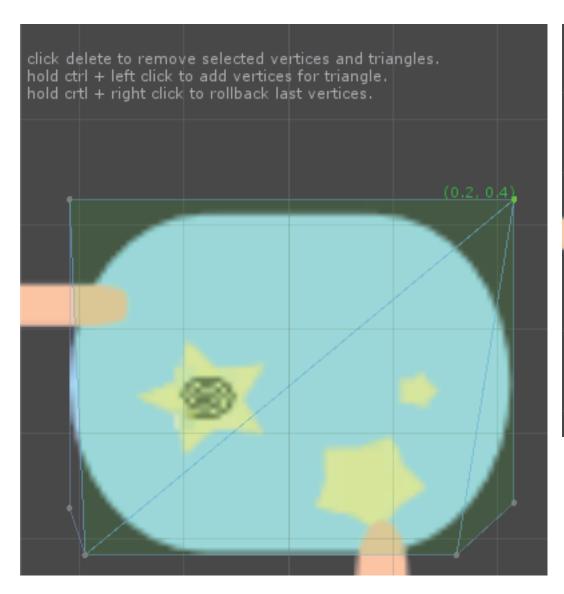


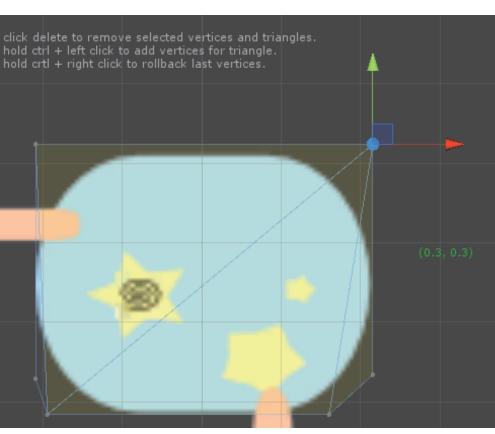


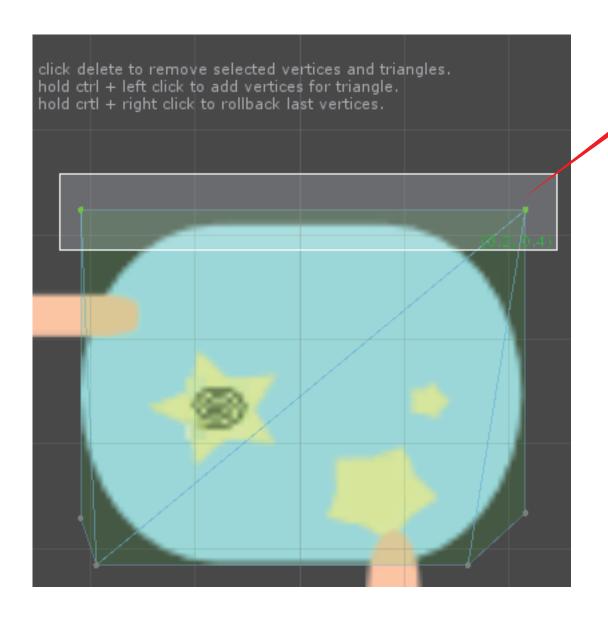
selected vertex could be moved by position mover.
press delete button to remove the selected vertex from mesh

mouse hover vertex

vertex be selected



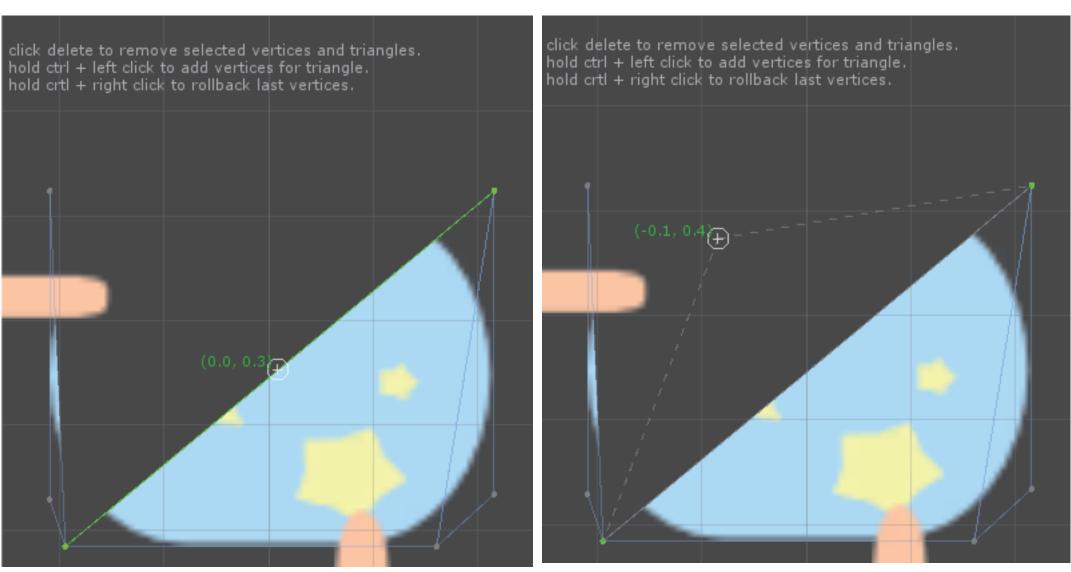




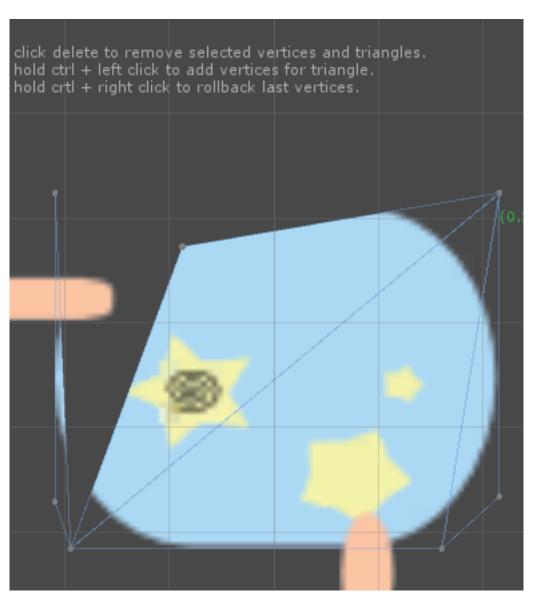
drag rect to select multi vertexs

click to select line

drag out to third point

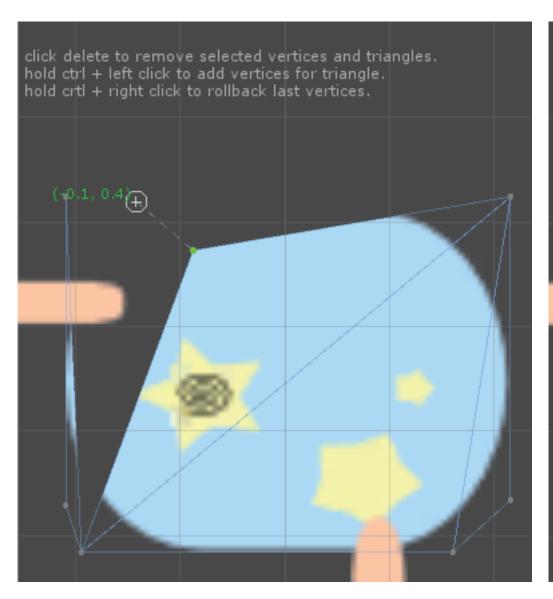


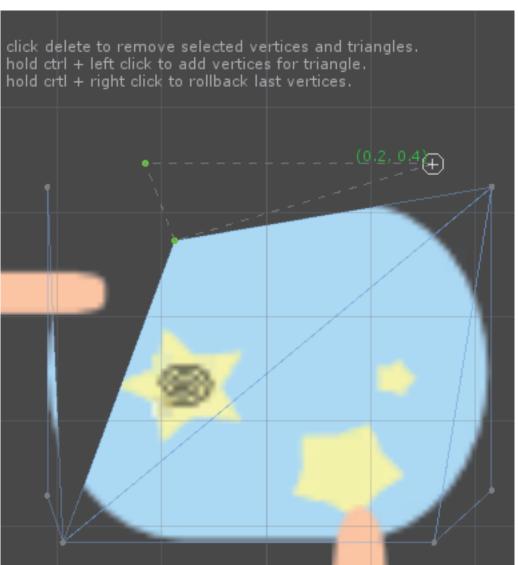
click to create a triangle



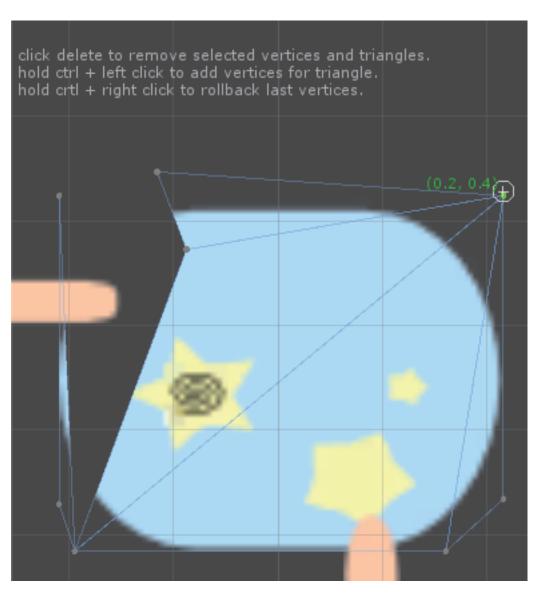
click first point then moving to second point

click second point then moving to third point





click at third point to create a triangle



Mesh - Merge

Merge - active button

there is at least one SkinBoneWeights in the selections.

Merge(H) - active button

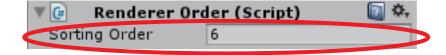
there is at least one SkinBoneWeights in the last selection or children

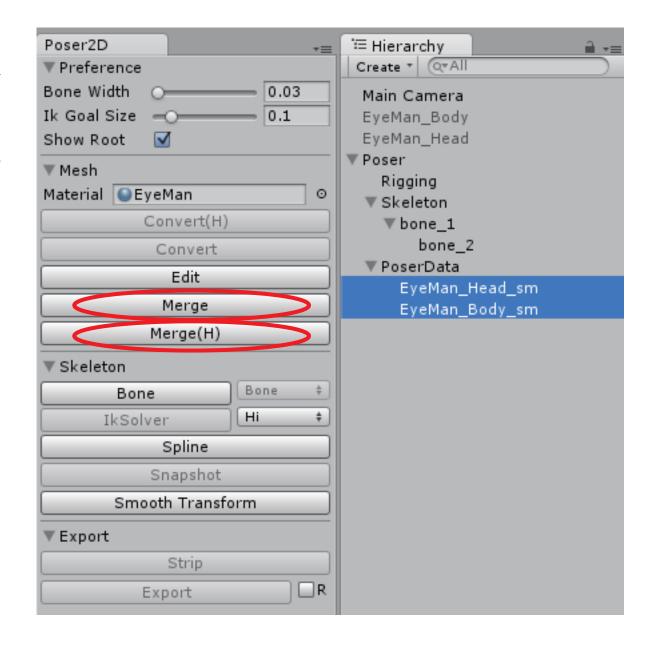
click button

if there is not any Bone, warning will be displayed.

Choice the file path to save merged mesh

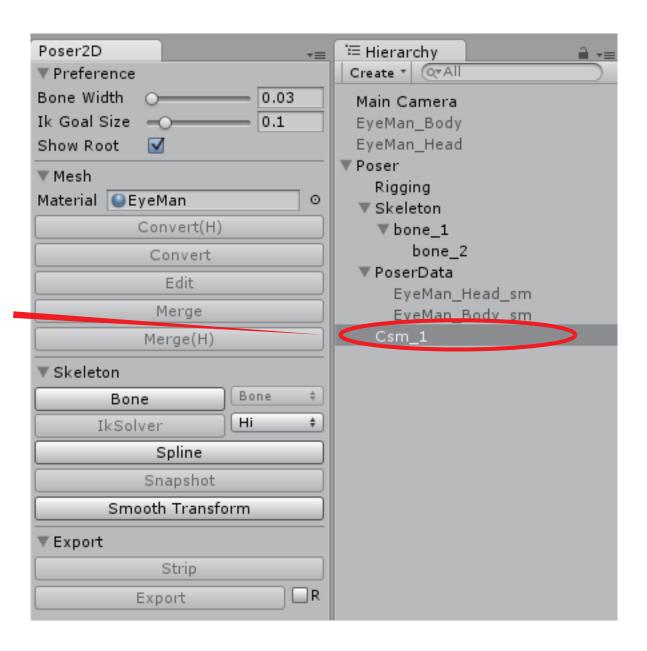
merge order depend by sortingOrder



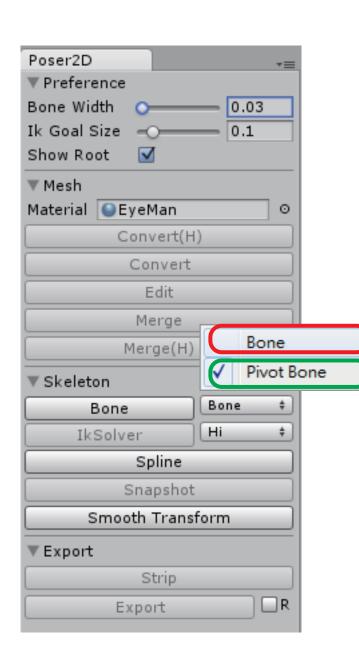


Mesh - Merge

After merge, merged mesh will be selected



Skeleton - Bone



Bone - A child of Bone will influence rotation of parent Bone. Every time changed parent will recaculate relation to parent of Bone

Pivot Bone - A child of Pivot Bone will not influence rotation of parent of Bone

Skeleton - Bone - Bone

Material EyeMan 0 Convert(H) Convert Edit Merge Merge(H) ▼ Skeleton Bone Bone Creation. Hi IkSolver Spline Snapshot Smooth Transform ▼ Export Strip

Export

 \checkmark

Poser2D

▼ Preference

Bone Width

Ik Goal Size

Show Root

▼ Mesh

Scene

left click to draw Bones.

Shaded

÷≡

□ R

0.03

0.1

€ Game

left click on a bone to pick a parent bone.

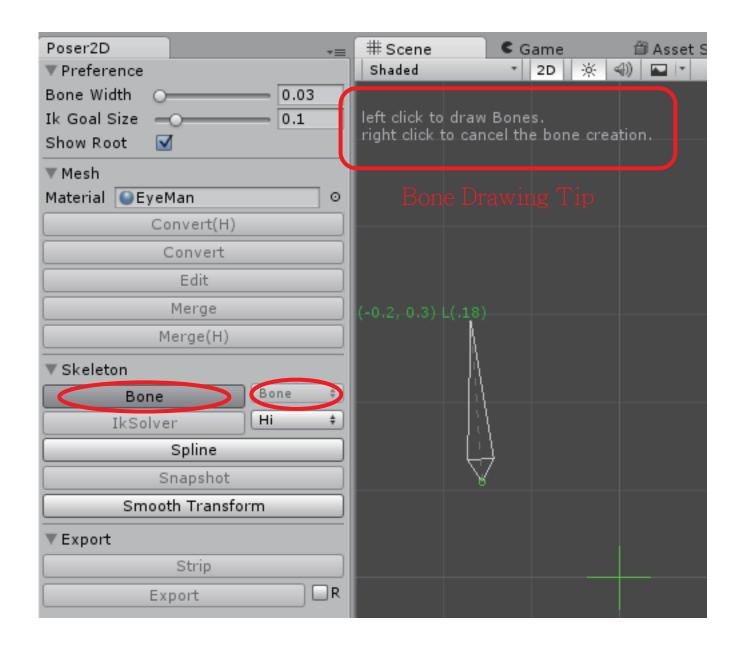
right click to cancel the operation.

▼ 2D | ※ ④) 🔤 🔻

Asset S

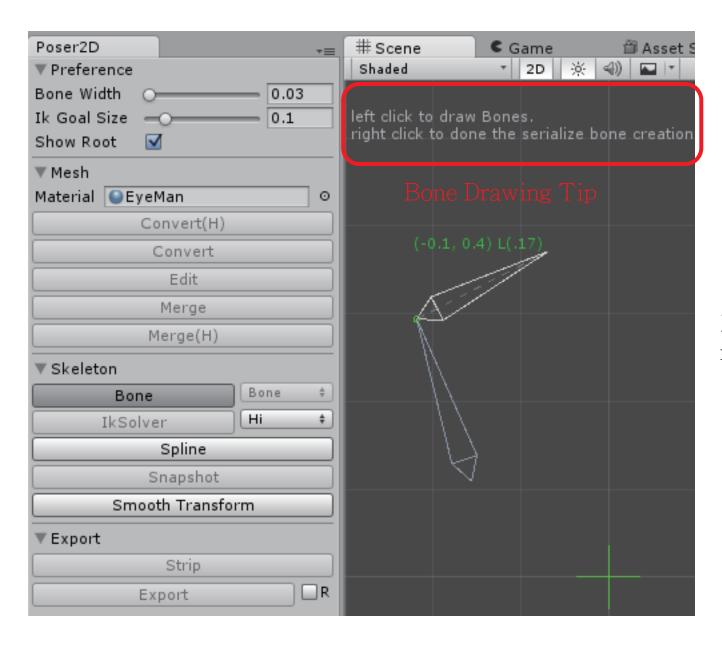
Click Bone button to active Bone

Skeleton - Bone - Bone - 1



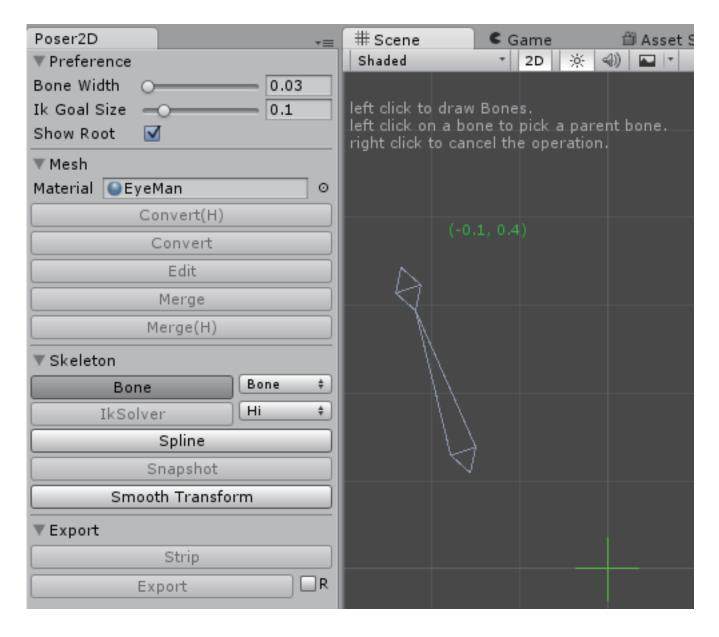
left click then moving out to draw a bone

Skeleton - Bone - Bone - 2



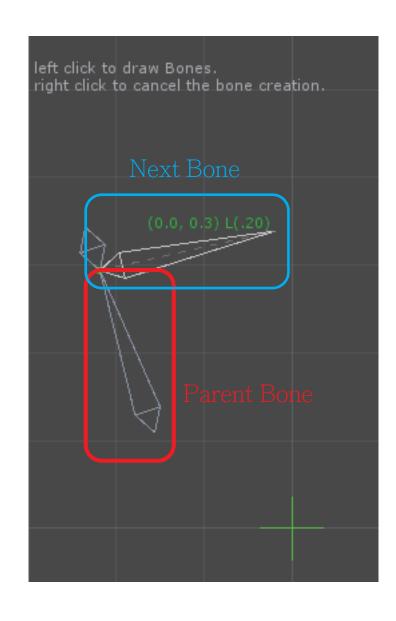
left click to created a bone then moving out to draw next child bone

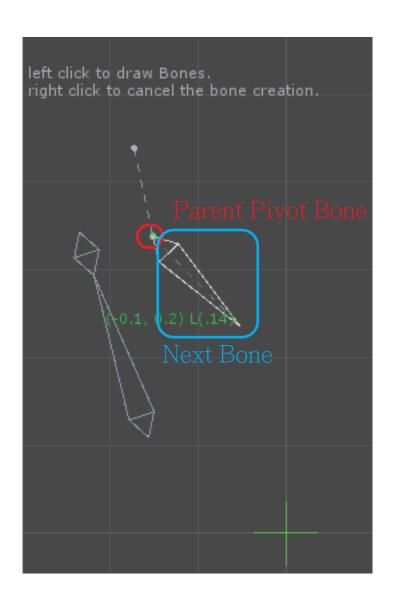
Skeleton - Bone - Bone - 3



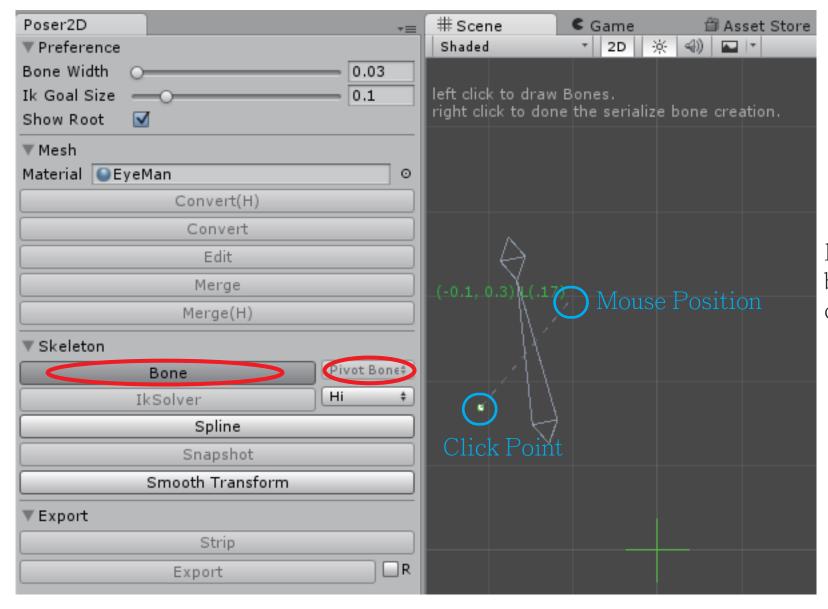
right click to created a bone then finish the bone creation

Skeleton - Bone - Bone - PickParent



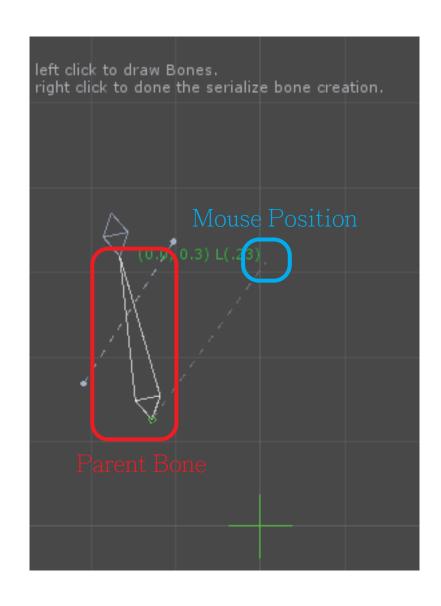


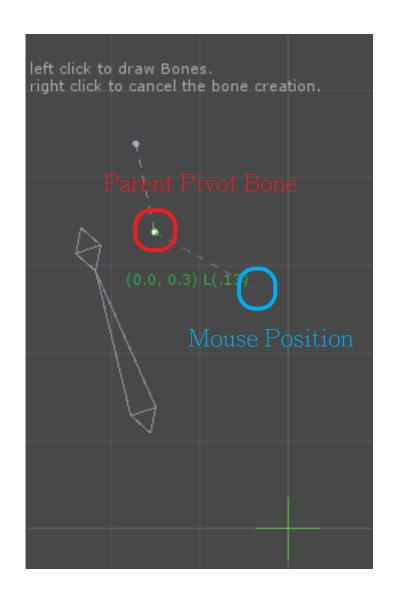
Skeleton - Bone - PivotBone



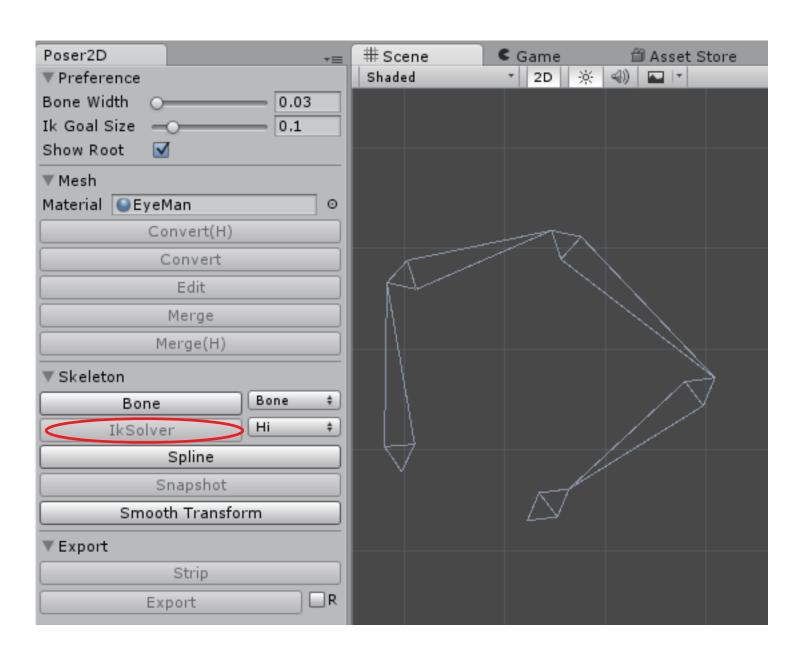
left click to create a pivot bone then moving out to create next one.

Skeleton - Bone - PivotBone - PickParent



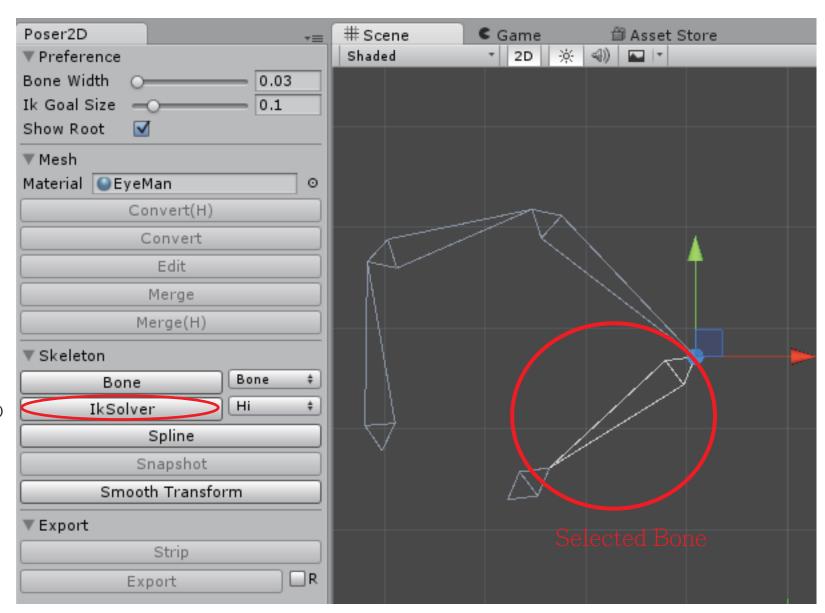


Skeleton - IkSolver - Unactive



Select a Bone to active IkSolver button

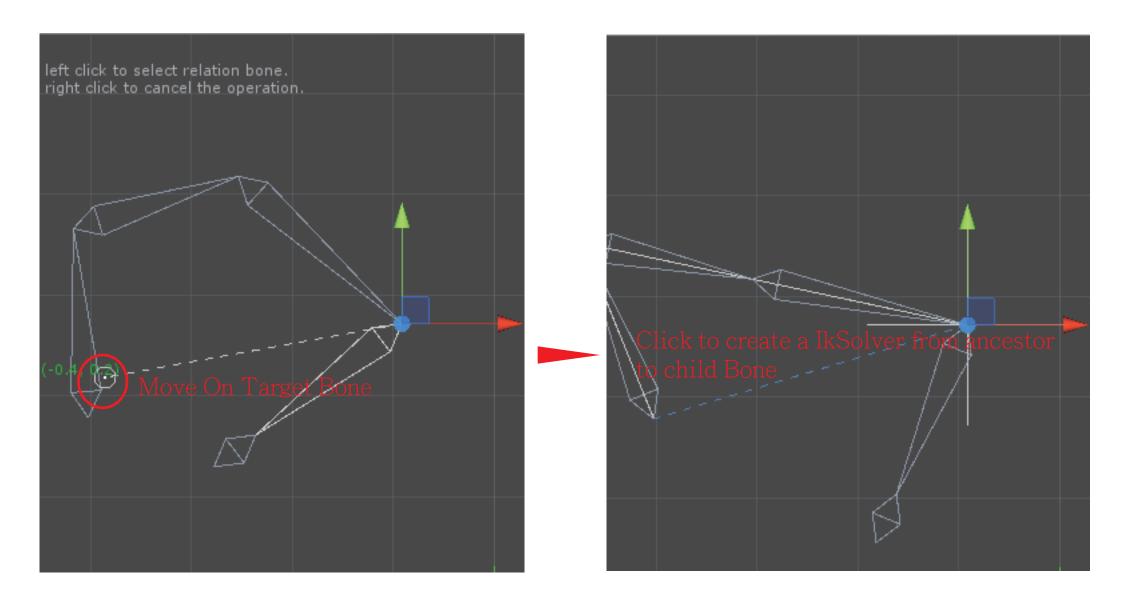
Skeleton - IkSolver - Active



Click IkSolver button to create a IkSolver.

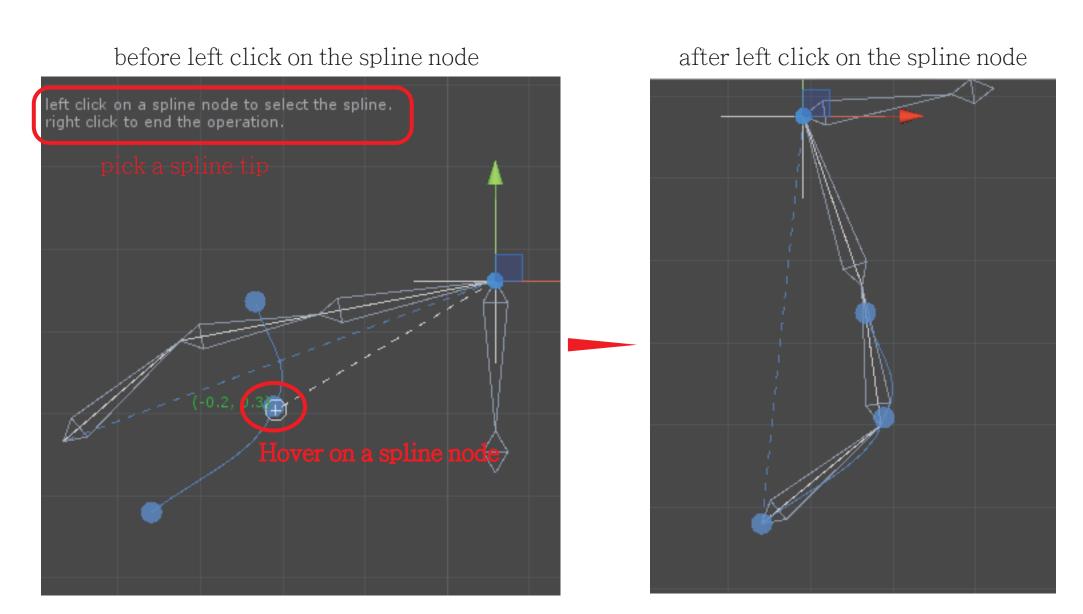
Skeleton - IkSolver - Creation

IkSolver Limb is only from ancestor to child bone with max 2 levels

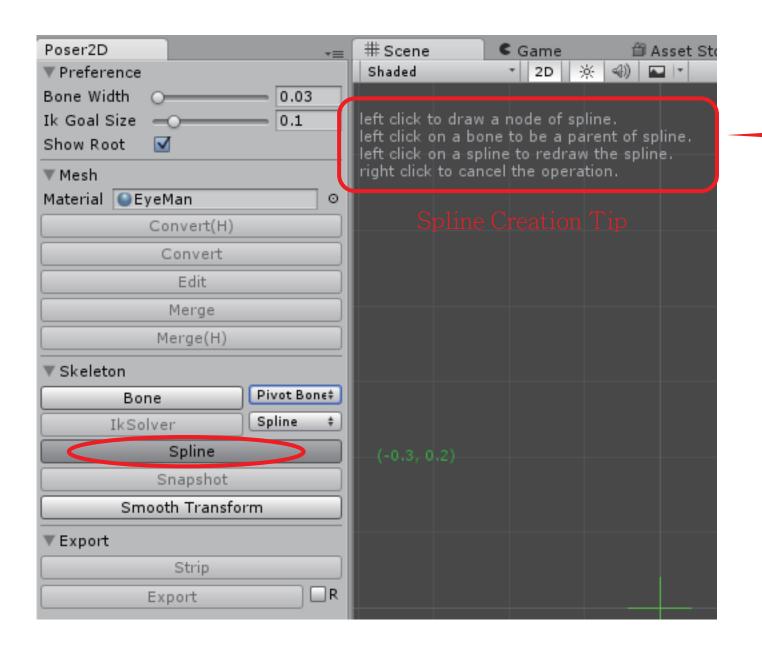


Skeleton - IkSolver - Creation - Spline

after created IkSolverSpline, you could assign a spline to IkSolverSpline



Skeleton - Spline - Creation



Bone or PivotBone

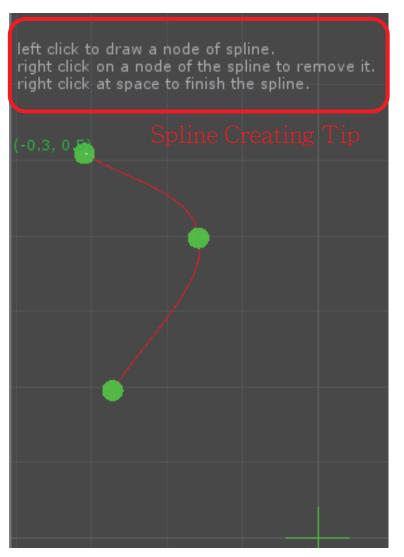
Skeleton - Spline - Creation

Step1: left click and move mouse Step2: left click and move mouse Step3: right click at space to finish

Step1

left click to draw a node of spline. right click on a node of the spline to remove it. right click at space to finish the spline.

Step2



Skeleton - Snapshot

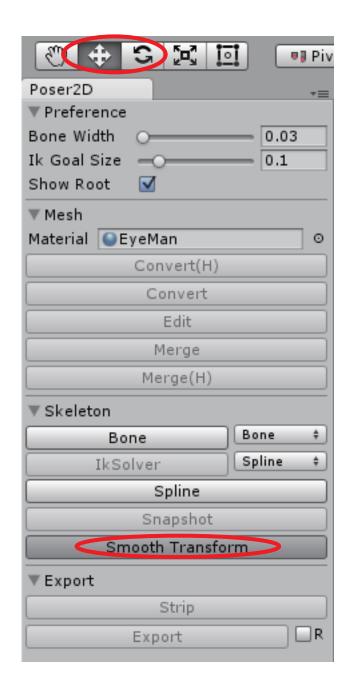
Poser2D '≡ Hierarchy **≟** -≡ ÷≡ Create ▼ (Q▼AII ▼ Preference Bone Width 0.03 Main Camera Ik Goal Size -0-0.1 EyeMan_Body Show Root EyeMan_Head Poser ▼ Mesh Rigging Material SeyeMan 0 ▼ Skeleton Convert(H) ▼bone 1 ▼bone_2 Convert bone 3 Edit ▼bone_4 Merge ▼bone_5 bone 6 Merge(H) PoserData ▼ Skeleton Bone Bone Spline IkSolver Spline Snapshot Smooth Transform ▼ Export Strip □ R Export

select a Poser to active snapshot button.

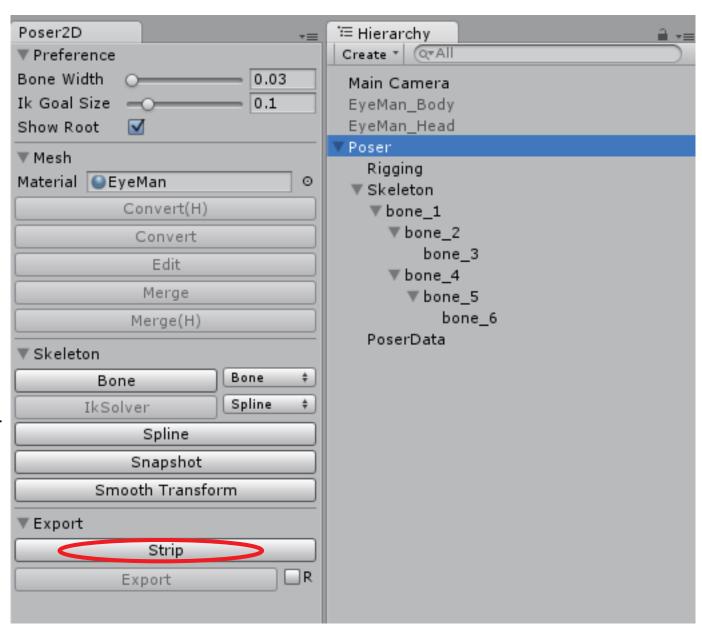
click it to open snapshot window

Skeleton - SmoothTransform

smooth transform mode can use move and rotation in tools. let Bone move smooth to influence his parent Bone. it is only effect in the last selected transform.



Export - Strip

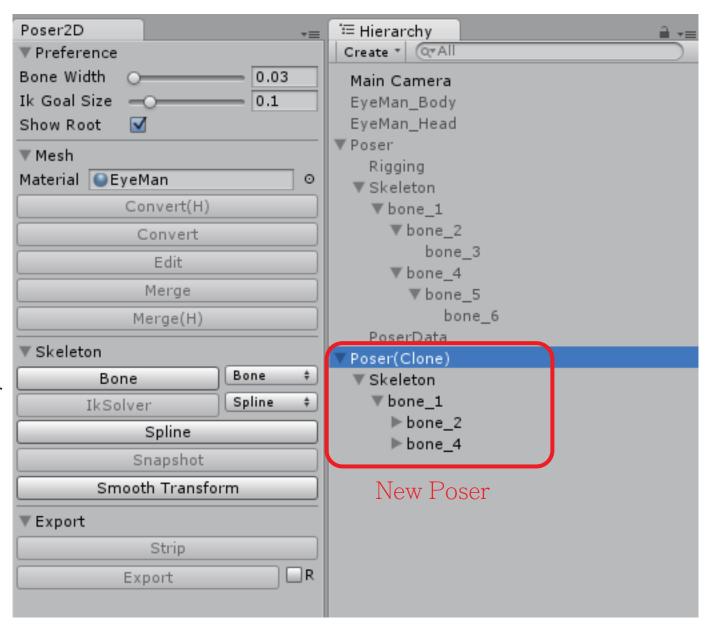


select a Poser to active Strip button. click it to strip edit data of Poser.

Export - Strip

After click Strip button, it will create a new Poser without Edit Data.

The new Poser could be used for validating animations correctly



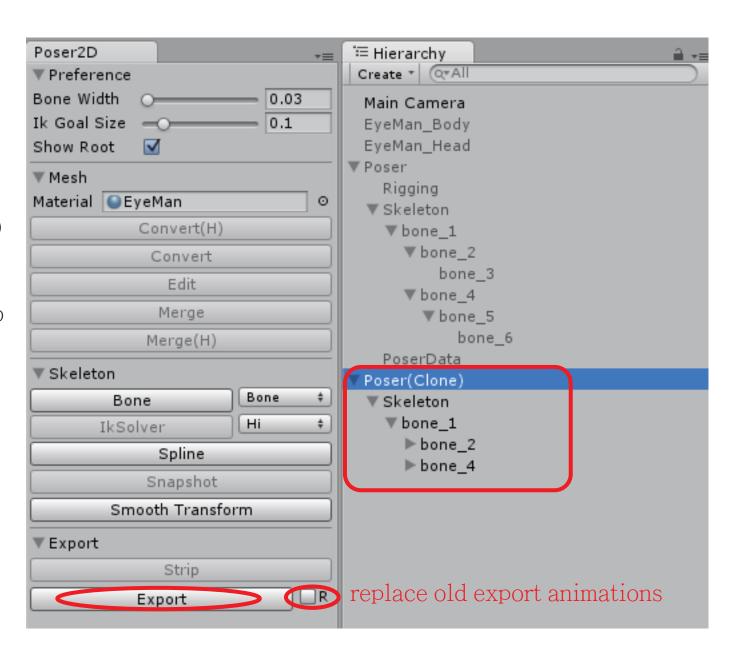
Export - Export

Active Button:

the last selection with animator and animator controller (stripped poser with animation data)

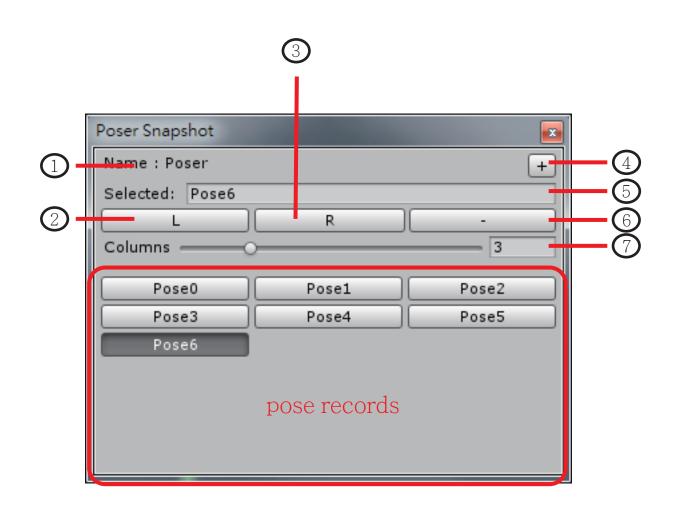
Click Button:

save the last selection to be a prefab and export all anmation data(strip edit reference) in the same folder, then delete the last selection



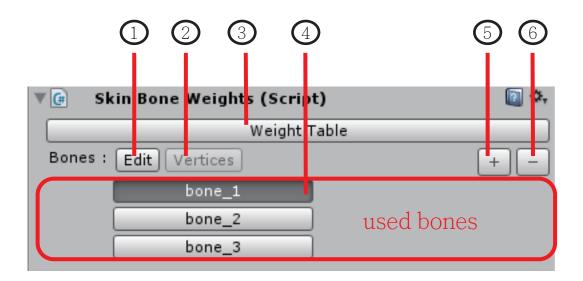
Snapshot Window

- 1 name of the selected Poser
- 2 load the selected pose recrod
- 3 reset the selected pose record
- 4 add new pose record
- 5 name of the selected pose record
- 6 remove the selected pose record
- 7 column number of pose recrods



SkinBoneWeights

- 1 edit bone data button
- 2 show vertices button (relation with selected bone)
- 3 open bone weight table
- 4 selected bone for edit
- 5 open bone picker window
- 6 remove selected bone

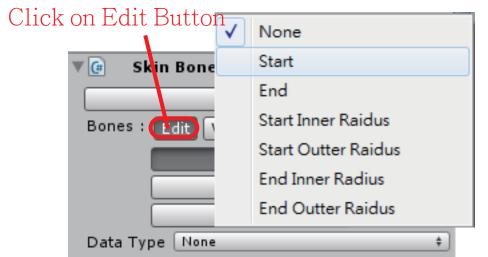


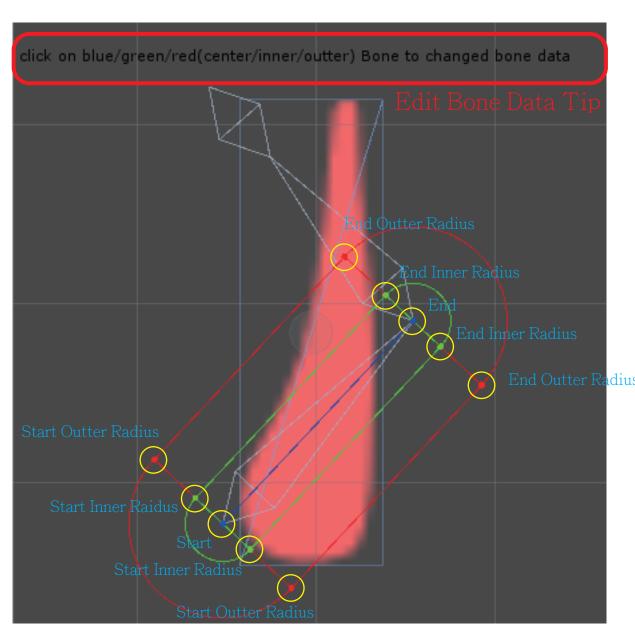
SkinBoneWeights - Edit Bone Data

click on yellow circle to select data type to change.

Bone Data Type:

- 1 Start
- 2 End
- 3 Start Inner Radius
- 4 Start Outter Radius
- 5 End Inner Radius
- 6 End Outter Radius

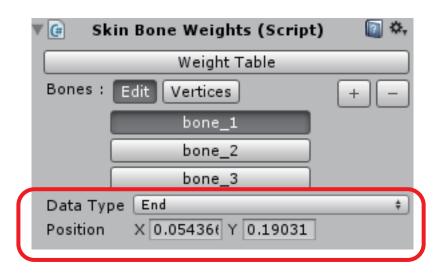


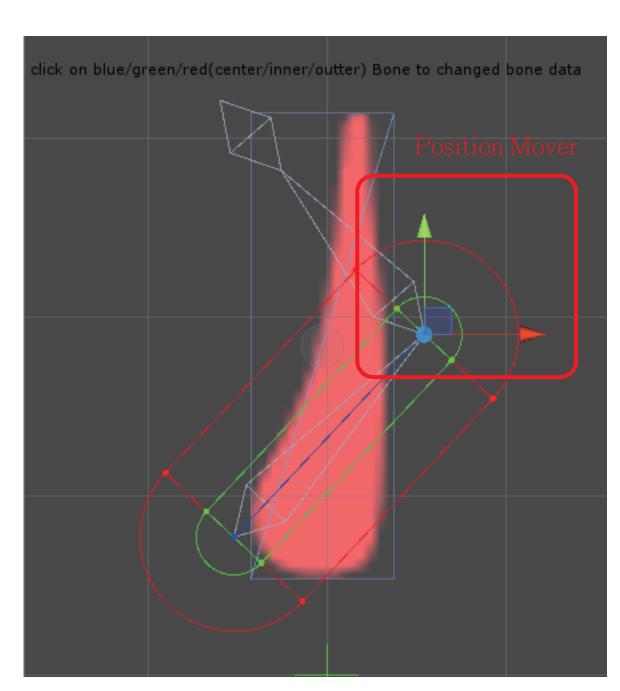


SkinBoneWeights - Edit BoneData - Start / End

Start End

drag Position mover to move position or modify position value in inspector



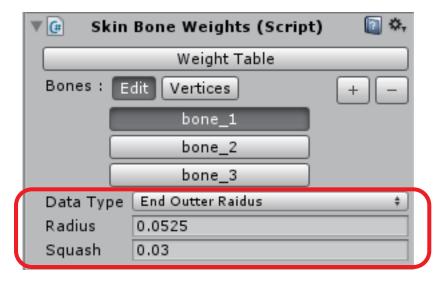


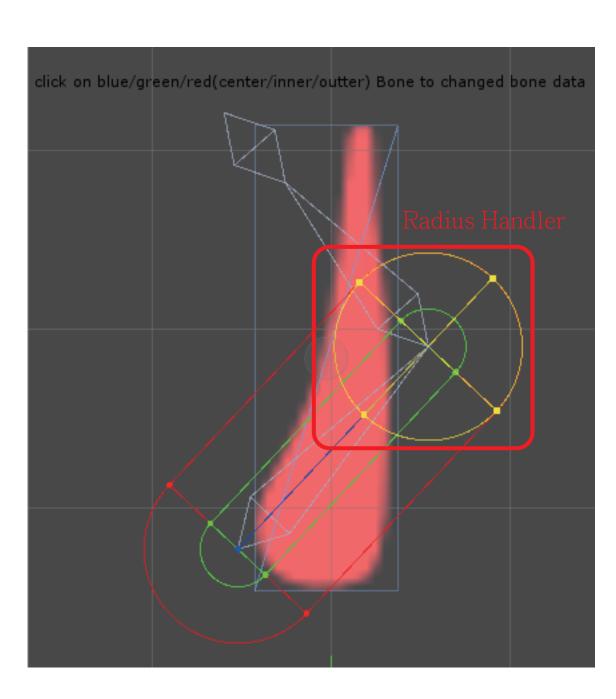
SkinBoneWeights - Edit BoneData - Radius

Start Inner Radius Start Outter Radius End Inner Radius End Outter Radius

drag Radius Handler to change radius or modify radius value in inspector

squash to push radius value when inner and outter too closed



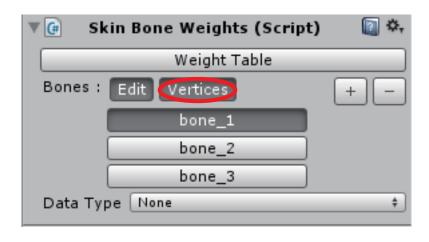


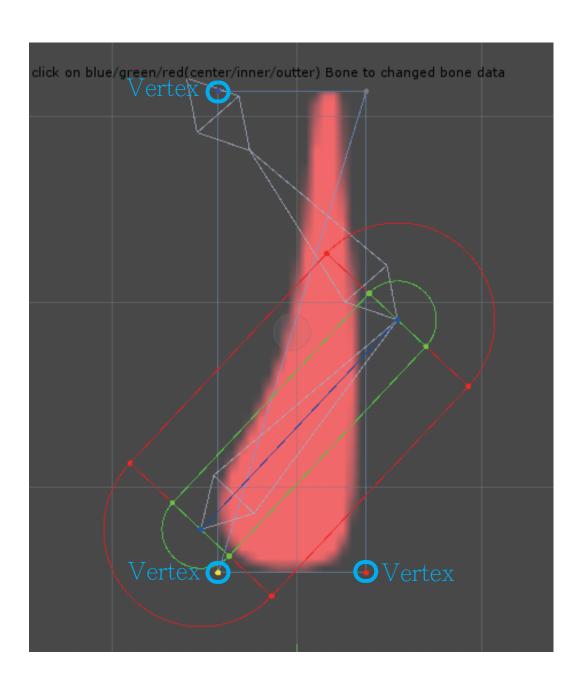
SkinBoneWeights - EditBoneData - Vertices

click on Vertices Button to show vertices of relation of the selected bone

Weight Color of Vertex

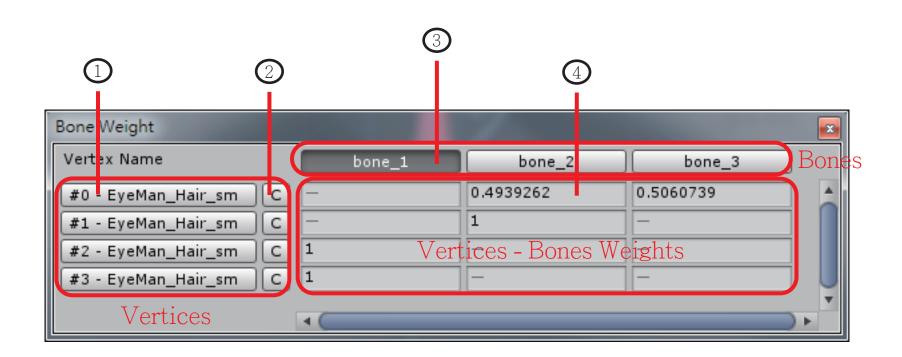






SkinBoneWeights - Bone Weight Table

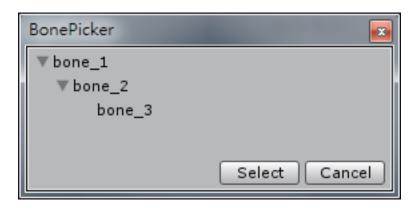
- 1 vertex toggle, pressed will be displayed when editing bone data in SkinBoneWeights
- 2 weight custom toggle, pressed will not auto updated bone weight of the vertex when changed bone data (add bone or remove bone will auto untoggle).
- 3 bone mutex toggle, pressed will changed the selected bone in SkinBoneWeights.
- 4 weight of the column bone and the row vertex



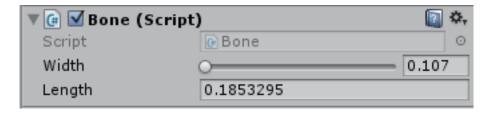
SkinBoneWeights - Bone Picker

left click to select a bone. ctrl + left click to add a selected bone. shift + left click to select bones from last selected bone to click bone.

click Select button to add selected bones to SkinBoneWeights. click Cancel to cancel this operation.

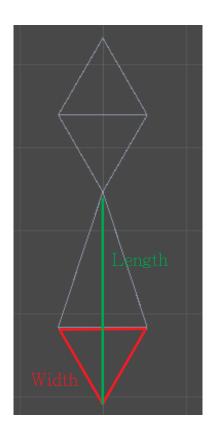


Bone

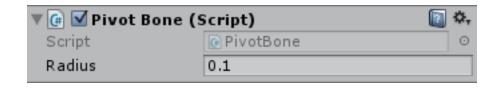


Width: used when bind bones to mesh to initial bone data.

Length: used when bind bones to mesh to initial bone data or caculate position for creating a child bone



Pivot Bone



Radius: used when bind bones to mesh to initial bone data.

bone data is in SkinBoneWeights for caculation of bone weight of vertex

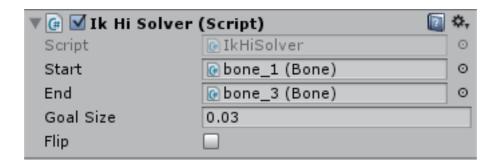
IkHiSolver, IkLimbSolver



Start : first ancestor Bone node End : last posterity Bone node

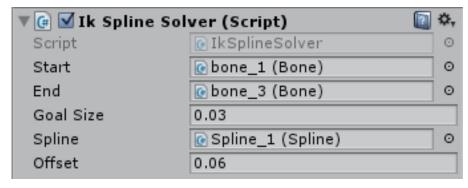
Goal Size: size of visual IkSolver for pick

Flip : flip caculation of IkSolver





IkSplineSolver

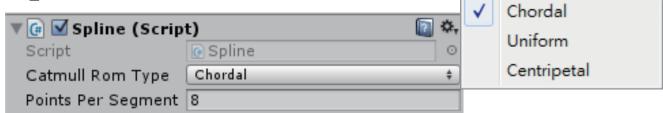


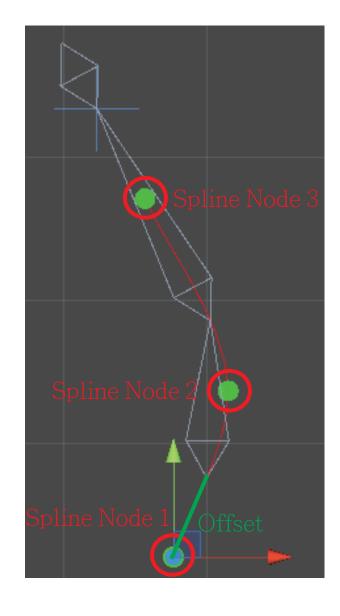
Start, End, Goal Size are same as IkHiSolver

Spline : used spline for IkSplineSolver

Offset : distance to Spline Node1

Spline





Catmull Rom Type : caculation type for curve of spline(show difference at next page)

Points Per Segmenet: points amount between 2 nodes of spline

Catmull Rom Type

http://www.cemyuksel.com/research/catmullrom_param/catmullrom.pdf url is more detail about Catmull Rom Type

