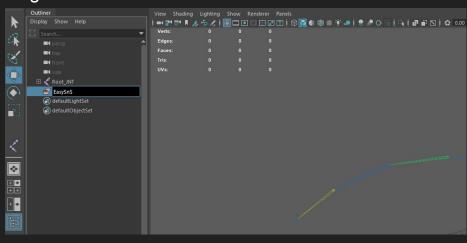
- 1) Create a group [CTRL + G].
- 2) Rename the group to "EasySnS" by double clicking the group in the outliner. (Fig 1)

Fig 1:



- 3) Select the joint named "R_Hand_JNT" [Left Click], then select the group named "EasySnS" in the outliner [CTRL + Left Click].
- 4) Click the drop down menu called "Constrain" in the top middle part of the maya window. In the drop down menu, click "Parent" option button. (Fig 2)
- 5) Make sure the "Maintain Offset" option is turned off. Then click "Add". (Fig 3)

Fig 2:

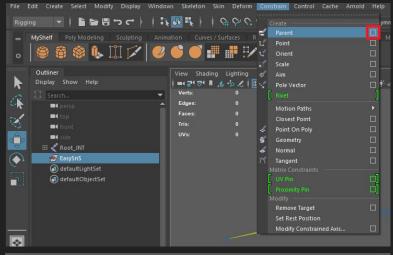
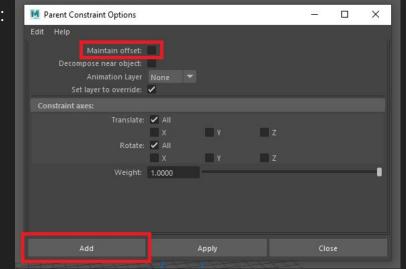


Fig 3:



- 6) Delete the parent constraint called "EasySnS_parentConstraint1" on the group "EasySns". (Fig 4)
- 7) Open the shelf menu called "Curves / Surfaces" and click the "CreateNURBSCircle" button. (Fig 5)

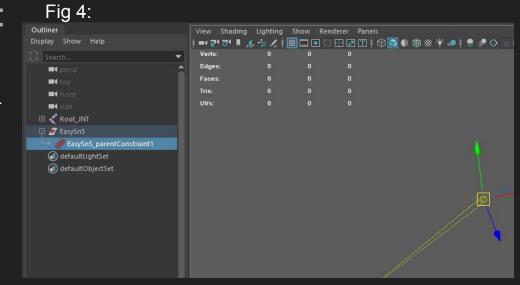
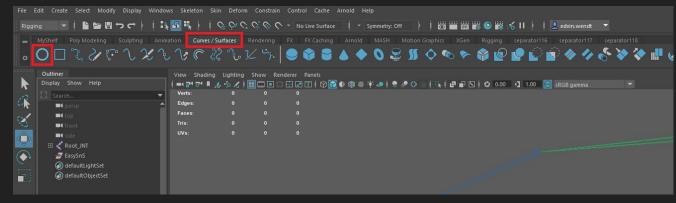


Fig 5:



- 8) Rename the nurb circle to "IK_CTRL" by double clicking the nurb circle in the outliner. (Fig 6)
- 9) Make sure the "IK_CTRL" is selected. Click the "Channel Box/Layer Editor" in the right side of the maya window.
- 10) In the "Channel Box/Layer Editor" click the drop down menu called "Edit" and then click the "Add Attribute" button. (Fig 7)

Fig 7:

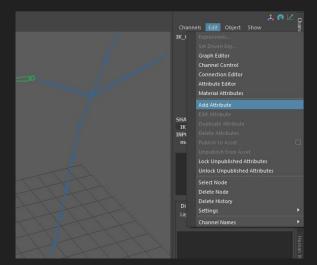


Fig 6:

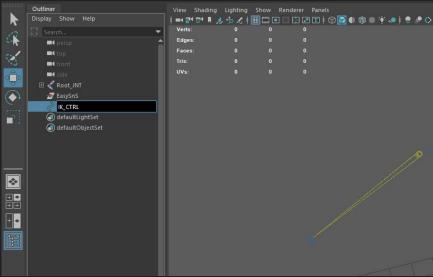
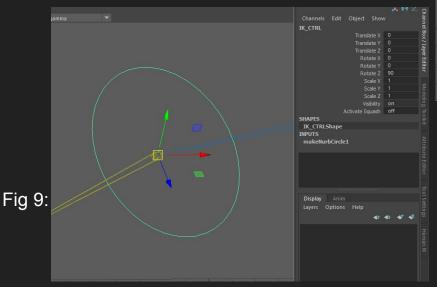


Fig 8:

- 11) In the Add Attribute window, set the long name to "ActivateSquash", select the "keyable" option and the "Boolean" data type. Then click OK. (Fig 8)
- 12) Select the "IK_CTRL" [Left Click] then select the "EasySnS" in the outliner [CTRL + Left Click]. Then click P.
- 13) Make sure the "IK_CTRL" is selected. In the right side of the maya window" in the Channel Box/Layer Editor" set the following attributes

Translate X = 0Translate Y = 0Translate Z = 0Rotate X = 0Rotate Y = 0Rotate Z = 0Scale X = 1Scale Y = 1

Scale Z = 1 (Fig 9)



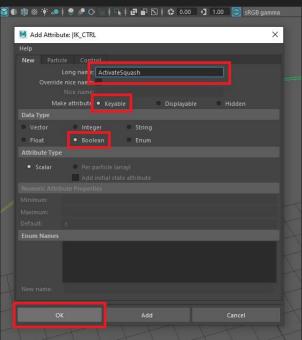
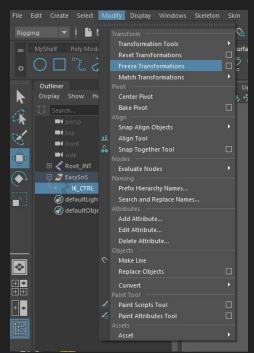


Fig 10:

- 14) Make sure the "IK_CTRL" is selected. Click the drop down menu called "Modify" in the top left part of the maya window. In the drop down menu, click "Freeze Transformations" (Fig 10)
- 15) Make sure the "IK_CTRL" is selected. Click the drop down menu called "Edit" in the top left part of the maya window. In the drop down menu, click "Delete by Type" → "History". (Fig 11)

Fig 11:





- 16) Open the shelf menu called "Curves / Surfaces" and click the "CreateNURBSSphere" button. (Fig 12)
- 17) Rename the nurb sphere to "LookAt_CTRL" by double clicking the nurb circle in the outliner. (Fig 13)

Fig 13:

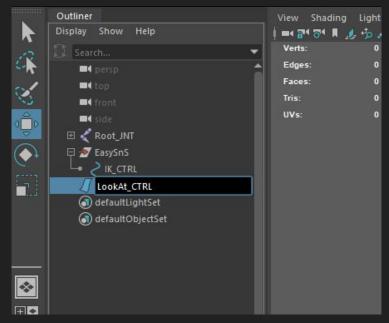
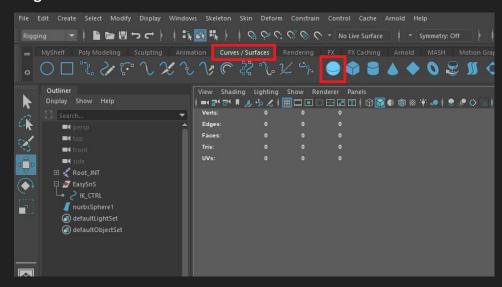


Fig 12:



18) Make sure the "LookAt_CTRL" is selected. In the right side of the maya window in the "Channel Box/Layer Editor" set the following attributes

Translate X = -5

Translate Y = 15.5

Translate Z = -2

Rotate X = 0

Rotate Y = 0

Rotate Z = 90

Scale X = 0.5

Scale Y = 0.5

Scale Z = 0.5

(Fig 14)

19) Select the "LookAt_CTRL" [Left Click] then select the "EasySnS" in the outliner [CTRL + Left Click]. Then click P. (Fig 15)

Fig 14:

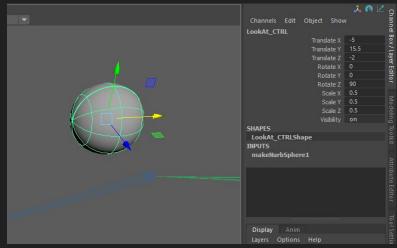


Fig 15:

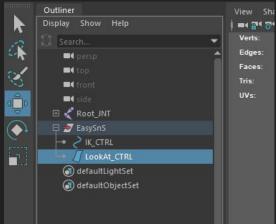


Fig 16:

20) Make sure the "LookAt_CTRL" is selected. Click the drop down menu called "Modify" in the top left part of the maya window. In the drop down menu, click "Freeze Transformations" (Fig 16)

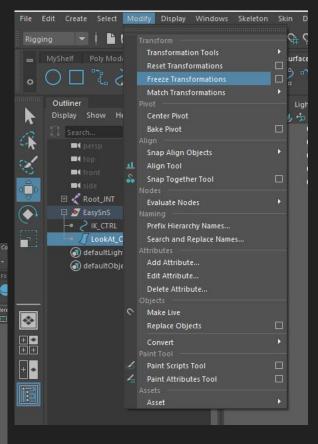
21) Make sure the "LookAt_CTRL" is selected. Click the drop down menu called "Edit" in the top left part of the maya

window. In the drop down menu,

click "Delete by Type" → "History". (Fig 17)

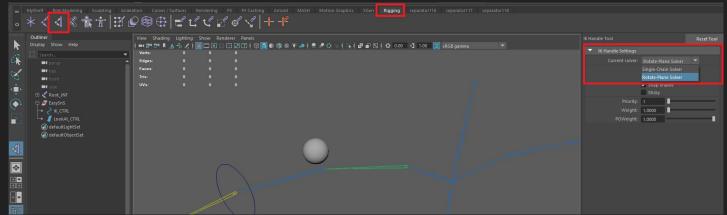
Paste Delete Delete All by Type Ctrl+D Static Channels Duplicate with Transform Rigid Bodies

Fig 17:



 Open the shelf menu called "Rigging" and double click the "CreatelKHandle" button. Then make sure the "Rotate-Plane Solver" is the Current solver option (Fig 18)

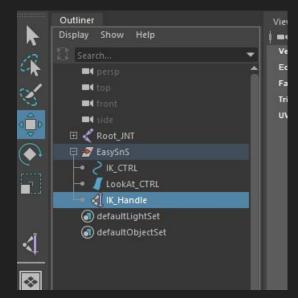




2) Left click on the "R_Sholder_JNT" then left click on the "R_Hand_JNT".

- Rename the IK handle to "IK_Handle" by double clicking the IK handle in the outliner.
- 4) Select the "IK_Handle" [Left Click] then select the "EasySnS" in the outliner [CTRL + Left Click]. Then click P. (Fig 19)
- 5) Select the "IK_CTRL" [Left Click] then select the "IK_Handle" in the outliner [CTRL + Left Click]. Click the drop down menu called "Constrain" in the top middle part of the maya window. In the drop down menu, click "Parent". (Fig 20)
- 6) Rename the parent constraint to "Praent_Constraint" by double clicking the parent constraint the outliner.

Fig 19:





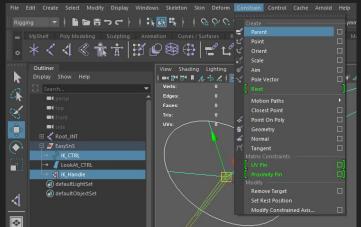


Fig 21:

- 7) Select the "LookAt_CTRL" [Left Click] then select the "IK_Handle" in the outliner [CTRL + Left Click]. Then click the drop down menu called "Constrain" in the top middle part of the maya window. In the drop down menu, click "Pole Vector".

 (Fig 21)
- 8) Rename the pole vector constraint to "Pole_Vector" by double clicking the pole vector constraint in the outliner.

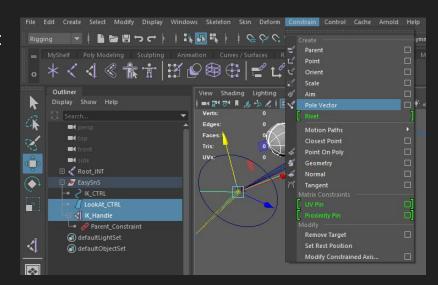


Fig 22:

- 9) Select the "IK_CTRL" [Left Click] then select the "R_Hand_JNT" in the outliner [CTRL + Left Click]. Then click the drop down menu called "Constrain" in the top middle part of the maya window. In the drop down menu, click "Orient". (Fig 22)
- 10) Rename the orient constraint to "Rotate_Constraint" by double clicking the orient constraint in the outliner.

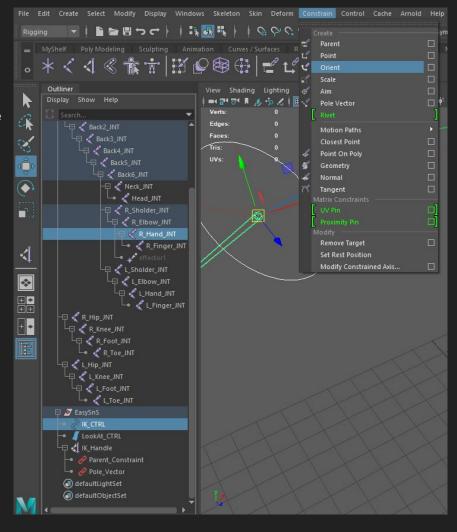
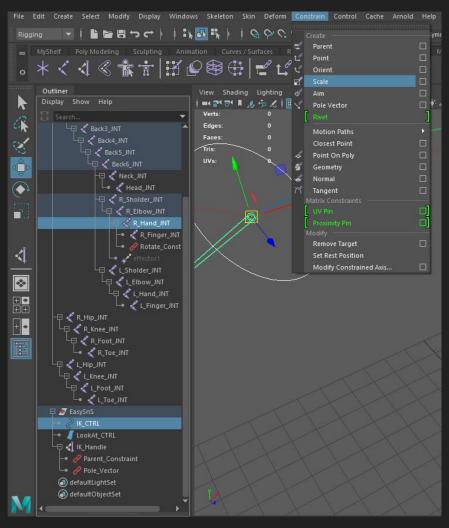


Fig 23:

- 11) Select the "IK_CTRL" [Left Click] then select the "R_Hand_JNT" in the outliner [CTRL + Left Click]. Then click the drop down menu called "Constrain" in the top middle part of the maya window. In the drop down menu, click "Scale". (Fig 23)
- 12) Rename the scale constraint to "Scale_Constraint" by double clicking the scale constraint in the outliner.



- Click the drop down menu called "Create" in the top left part of the maya window. In the drop down menu, click "Measure Tools" → "Distance Tool". (Fig 24)
- 2) Hold down **V** and click on the "R_Sholder_JNT", then hold down **V** and click on the "R_Hand_JNT".
- 3) Rename locator1 to "Start_Locator", rename locator2 to "End_Locator" then rename distanceDimension1 to "Distance". (Fig 25)

Fig 25:

Display Show Help

> ● 🍠 LookAt_CTRL 🖯 🚮 IK Handle

End_Locator

defaultObjectSet

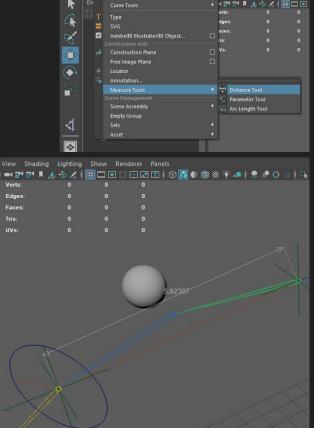


Fig 24:

- 4) Select the "Start_Locator" [Left Click] then select the "EasySnS" in the outliner [CTRL + Left Click]. Then click P.
- 5) Select the "End_Locator" [Left Click] then select the "EasySnS" in the outliner [CTRL + Left Click]. Then click P.
- 6) Select the "Distance" [Left Click] then select the "EasySnS" in the outliner [CTRL + Left Click]. Then click P. (Fig 26)

Fig 26:

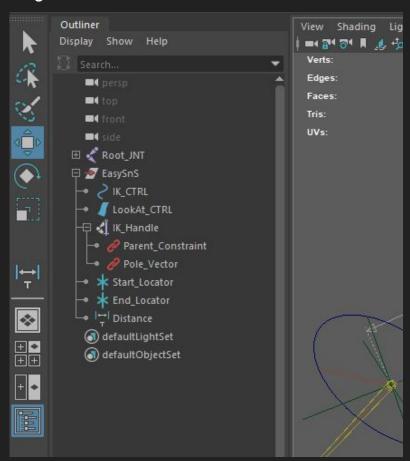
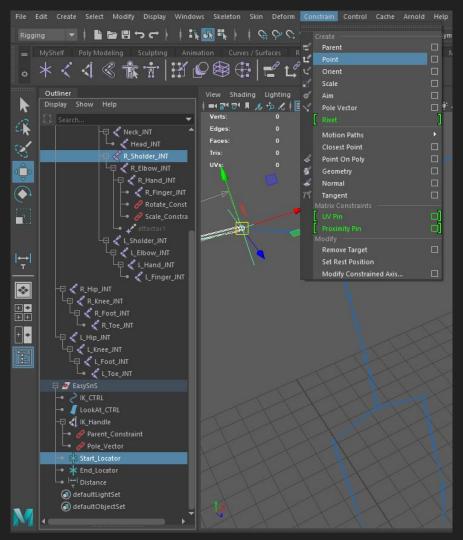


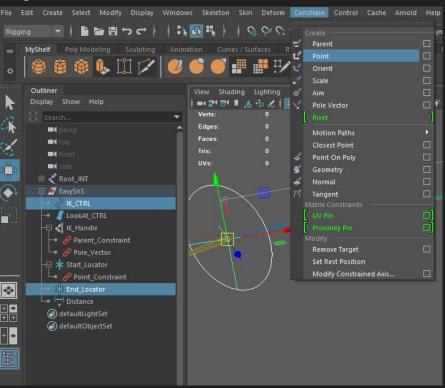
Fig 27:

- 7) Select the "R_Sholder_JNT" [Left Click] then select the
 "Start_Locator" in the outliner [CTRL + Left Click]. Click the drop down menu called "Constrain" in the top middle part of the maya
 window. In the drop down menu, click "Point". (Fig 27)
- 8) Rename the point constraint to "Point_Constraint" by double clicking the point constraint in the outliner.



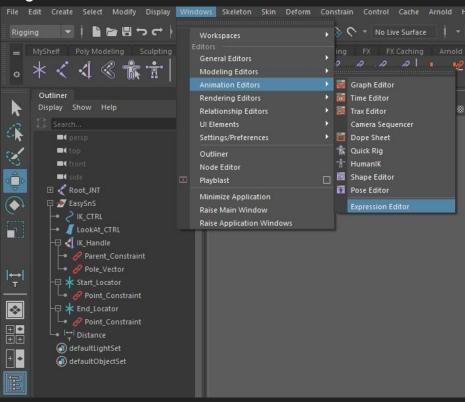
- 9) Select the "IK_CTRL" [Left Click] then select the "End_Locator" in the outliner [CTRL + Left Click]. Click the drop down menu called "Constrain" in the top middle part of the maya window. In the drop down menu, click "Point". (Fig 28)
- 10) Rename the point constraint to "Point_Constraint" by double clicking the point constraint in the outliner.

Fig 28:



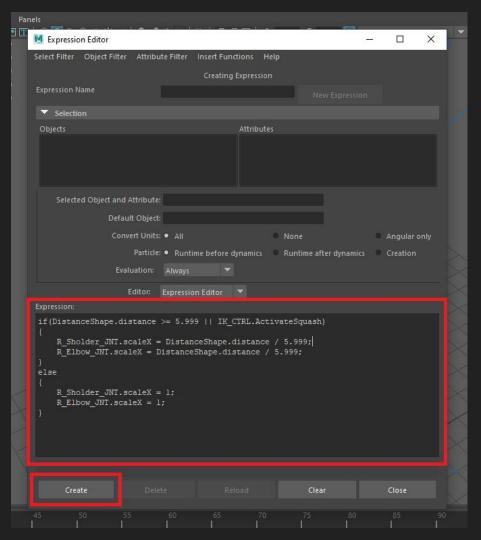
11) Click the drop down menu called
"Windows" in the top middle part of the maya window. In the drop down menu, click
"Animation Editor" → "Expression Editor". (Fig 29)

Fig 29:



11) In the expression window, write the following code (Fig 30), then click "Create"

Fig 30:



Step 4, Clean up

Step 4, Clean up:

- 1) Make sure the "IK_Handle" is selected. In the right side of the maya window" in the Channel Box/Layer Editor" set the "Visibility" to OFF. (Fig 31)
- 2) Make sure the "Distance" is selected. In the right side of the maya window" in the Channel Box/Layer Editor" set the "Visibility" to OFF.
- 3) Make sure the "Start_Locator" is selected. In the right side of the maya window" in the Channel Box/Layer Editor" set the "Visibility" to OFF.
- 4) Make sure the "End_Locator" is selected. In the right side of the maya window" in the Channel Box/Layer Editor" set the "Visibility" to OFF.

Fig 31:

| Channels Edit Object Show | Channels Edit Obje

You are done!