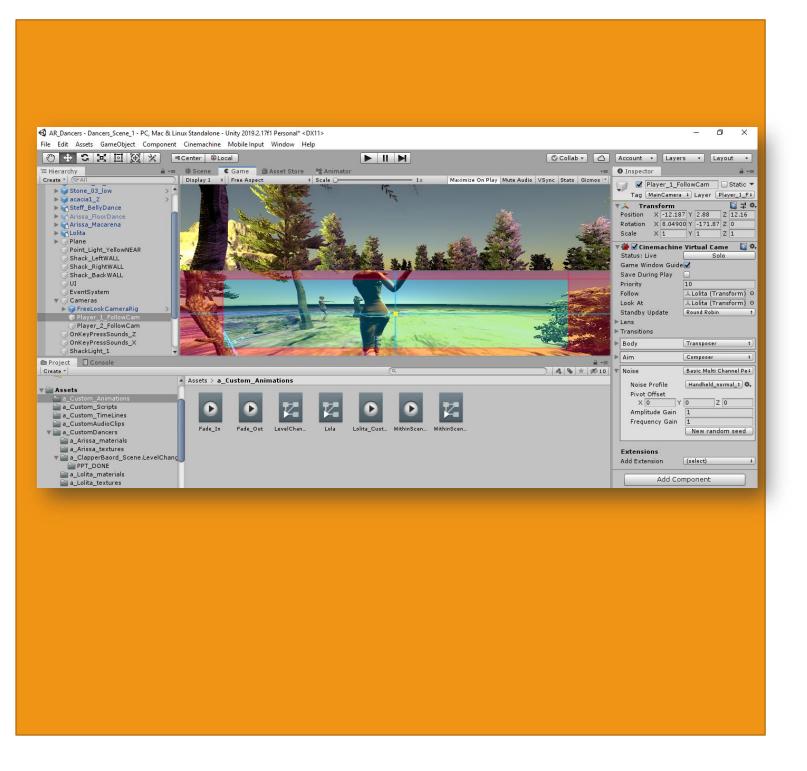
# Absolute Beginners Unity Book Chapter – II



This is the rough first cut of the Second Chapter of the - **Absolute Beginners Unity Book**, this is being written in near realtime by **Rohit Dhankar** ( independent / self employed Unity game developer / animator / designer - working under the title of **Unreal Game Labs**).

Social Media Contact details -

LinkedIn - https://www.linkedin.com/in/rohitdhankar/

GitHub - <a href="https://github.com/RohitDhankar">https://github.com/RohitDhankar</a>

YouTube - https://www.youtube.com/channel/UC9J9N9CNv15s9U9Aejpza6g/videos

https://www.youtube.com/watch?v=3Rm0TlBx1O4&list=PLLpHcww3gjp7n6i2DznVnbDEmP90ENBgc

FaceBook - https://www.facebook.com/AugmentedReality-110417607128839

Its to be considered a Log of the , hidden quips that have been encountered during creating the very first basic games , game plays and animations with Unity2D and Unity3D.

This content as on date is totally raw and un-edited, shoddy to a great extent - its being put to help anyone who may need it.

There are lots of external to official Unity tutorials being referred , all references as on date are inline within the main text .

#### Content Disclaimer:-

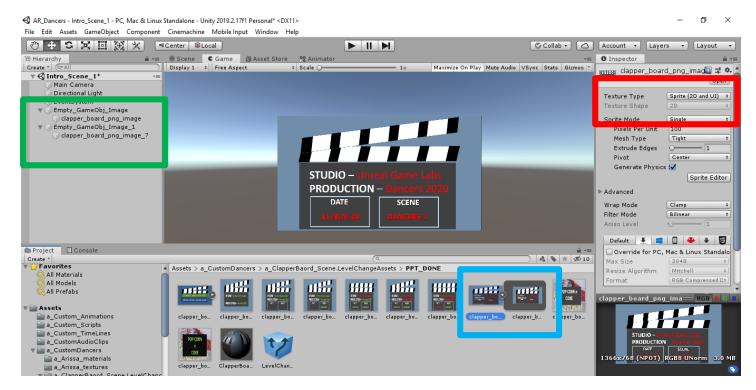
Under no circumstances is Rohit Dhankar liable in any way for any Content, including, but not limited to: any infringing Content, any errors or omissions in Content, or for any loss or damage of any kind incurred as a result of the use of any Content posted, transmitted, linked from, or otherwise accessible through or made available via this book.

#### Unity 2019 – Adding a PNG Image as a Sprite

Specific to 2D images being added as Sprites within the Unity 2019 editor .

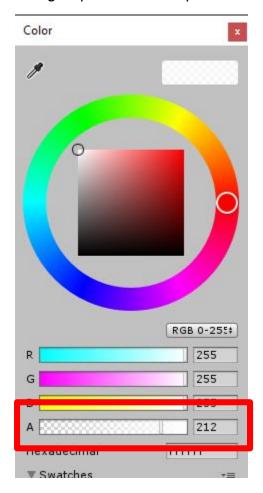
- a. Add the PNG image to the Assets or any Sub DIR of assets .
- b. Select image, in the INSPECTOR change the TEXTURE TYPE from Default to Sprite 2D and UI
- c. Drag image to below the Empty Game Object created earlier, image shall now appear within the Scene.

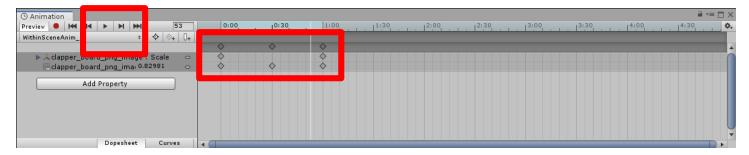




Choose the Image in the Inspector >> Color >> Change the ALPHA channel to make Image Transparent at the beginning of the Animation .

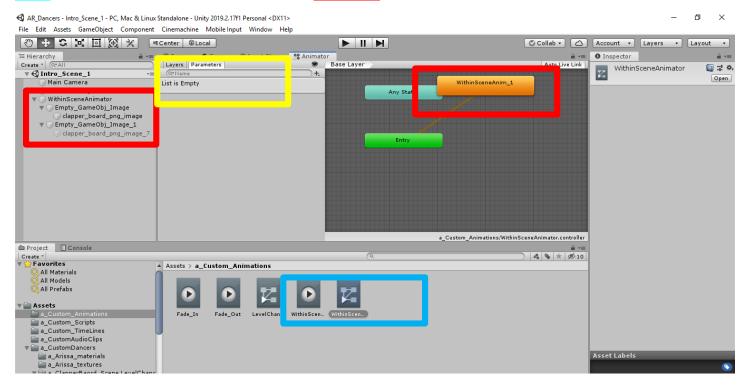
Change Alpha slider as required at various stages of the animation.





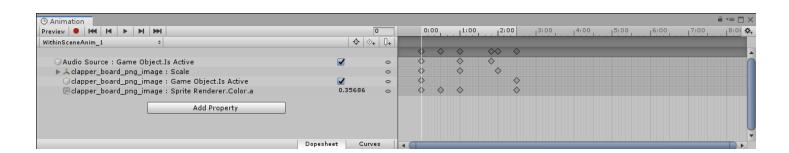
As seen above - we have added 2-3 KEYS to the Animation as seen in the DopeSheet above . Can check the animations now by clicking play .

The animation thus created is saved within the **Custom\_Animations DIR** created earlier, its named - **WithinSceneAnimator.anim** and has a **WithinSceneAnimator.controller**, both seen below in the **BLUE RECT**. The Controller is as seen below in the **RED RECT** 

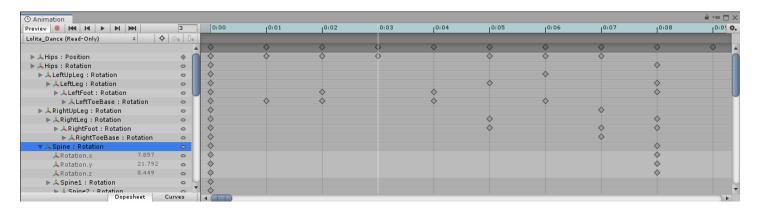


As seen above the ANIMATOR / CONTROLLER - has no PARMETERS yet - the List of PARAMETERS is EMPTY, highlighted above in the YELLOW RECT.

Use the MOUSE SCROLL WHEEL to reduce / increase the DopeSheet TimeLine duration , from within the Seconds view to the Minutes view .

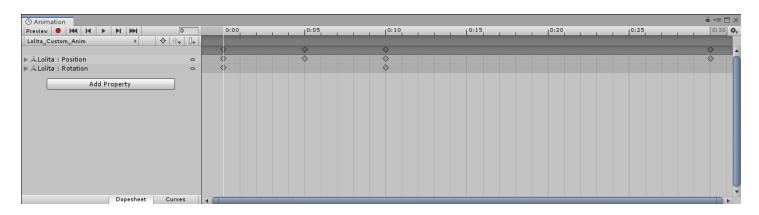


## Looking through the Dope Sheet for Mixamo Models



The mixamo models have very many parts of the skeleton animated as is apparent from the dope sheet.

## Add an Animation to the MIXAMO.com Models



As seen above have added an additional Animation - named it , Lolita\_Custom\_Anim , this is very basic in comparison to the Mixamo animations .

### Revisit the Follower CAMS

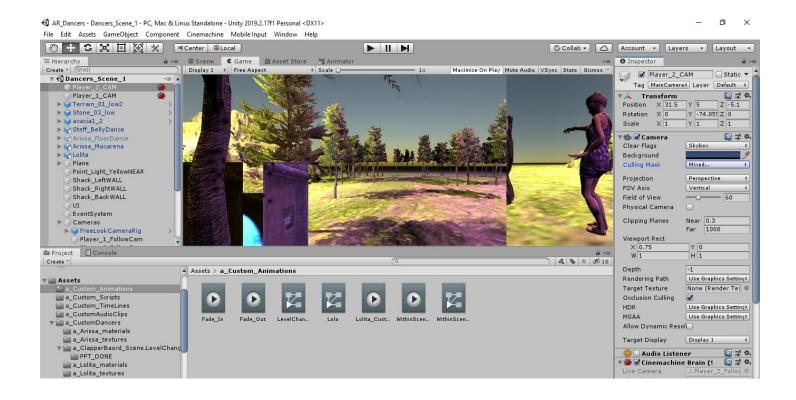
This portion involves adding Virtual cameras to the scene in addition to the Main Camera and managing the Three cameras using the CineMachine Brain. Splitting the screen to view two Virtual Follower cameras, is to be considered optional as it may or may not be required by your gameplay.

Primary Source - Unity Official Video =

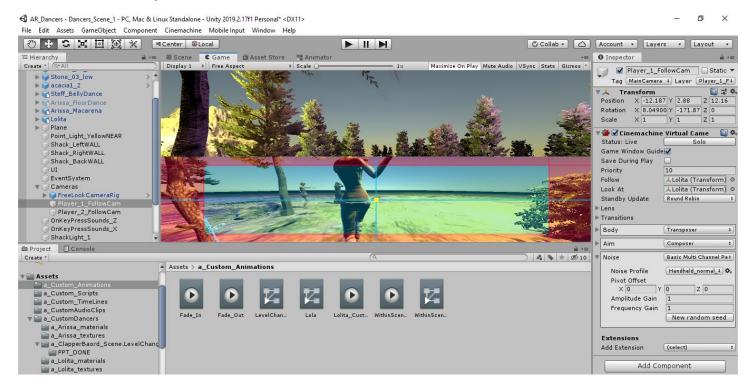
https://www.youtube.com/watch?time\_continue=38&v=X6Ou8InMUbg

- a) To the Main Camera Add Component >> Cinemachine Brain
- b) Rename MAIN CAMERA = Player Cam\_1, duplicate this Player Cam\_1 and rename it Player Cam\_2
- c) Create Two Virtual Cameras, rename them Player\_1\_FollowCam and Player\_2\_FollowCam
- d) Deag and Assign the MAXIMO 3D Model Lolita , to the Player\_1\_FollowCam , by dropping into the text box like space within CimeMachine VirtualCam >> Follow and CimeMachine VirtualCam >> Lookat.
- e) Exclude the Camera-1 from the Camera-2's CULLING MASK by unchecking the Camera-2 from within the Culling Mask Drop Down.

f)

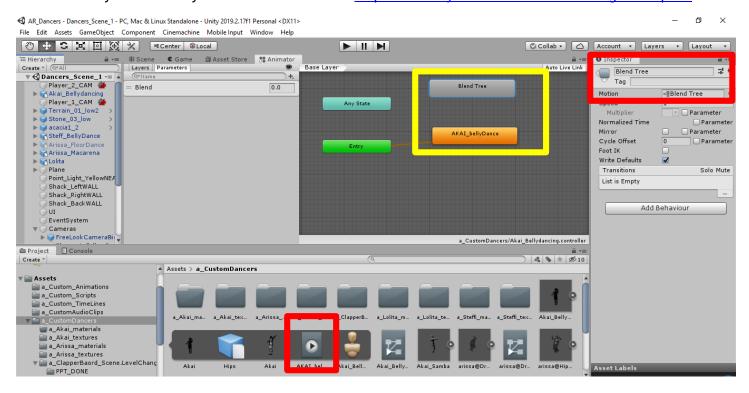


#### Seen below the - Player\_1\_FollowCam



### Add BlendTree Animations to the MIXAMO.com Models

Primary Source Unity Official tutorials and - https://www.youtube.com/watch?v=YgaLKrSApWM



- a) As seen above created a New BLEND TREE.
- b) Double Clicked on the BLEND TREE.
- c) Choose from within INSPECTOR Blend Types >> 2D FreeForm Directional
- d) Top Left corner within the ANIMATOR TAB Create a New PARAMETER.
- e) Choose Parameters Type = Float
- f) Create Two Such Floats velocity\_X and velocity\_Y

