



STANFORDXR

VR Workshop

What's different about VR Development?

Two main things:

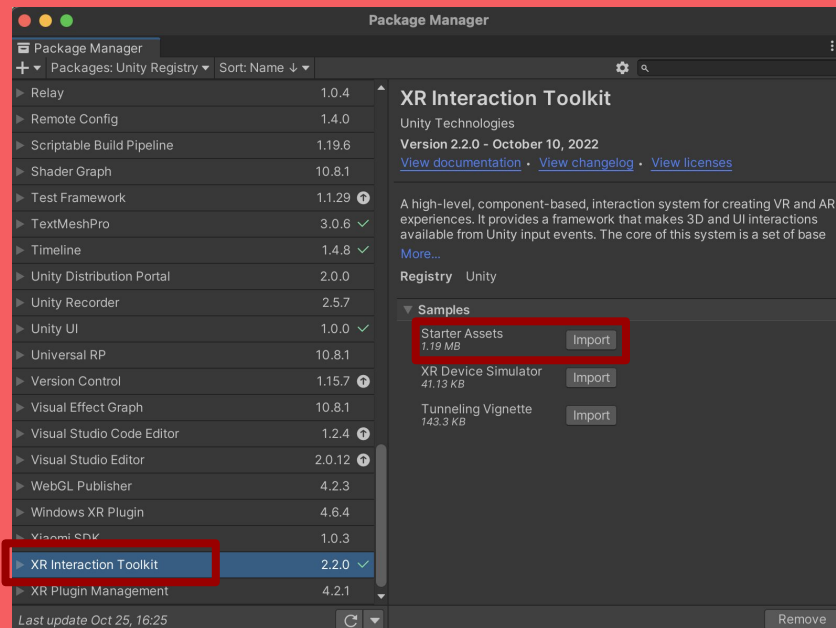
- Player view
- Controller Interaction

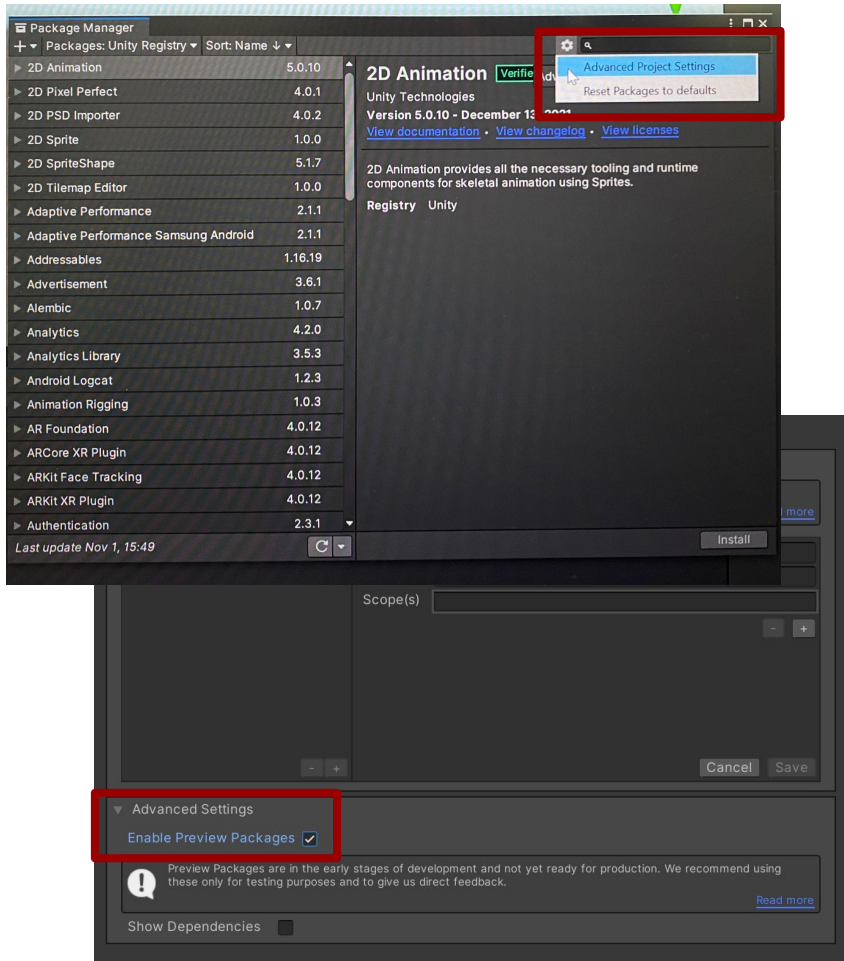
Other than that, we use almost the same Unity Development techniques as in normal 3D games/experiences

XR Interaction Toolkit

Window > Package Manager > In Unity
Registry > XR Interaction Toolkit

Install Starter Assets



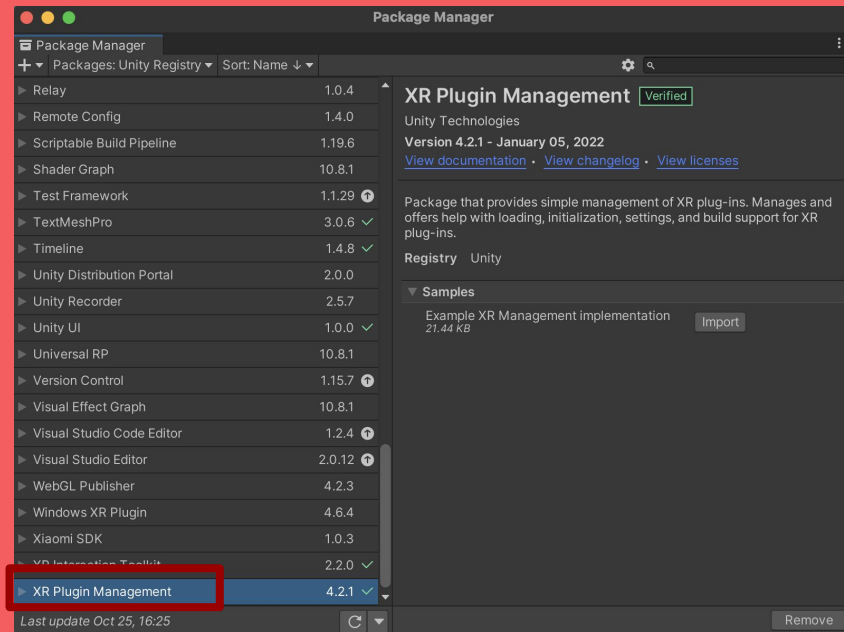


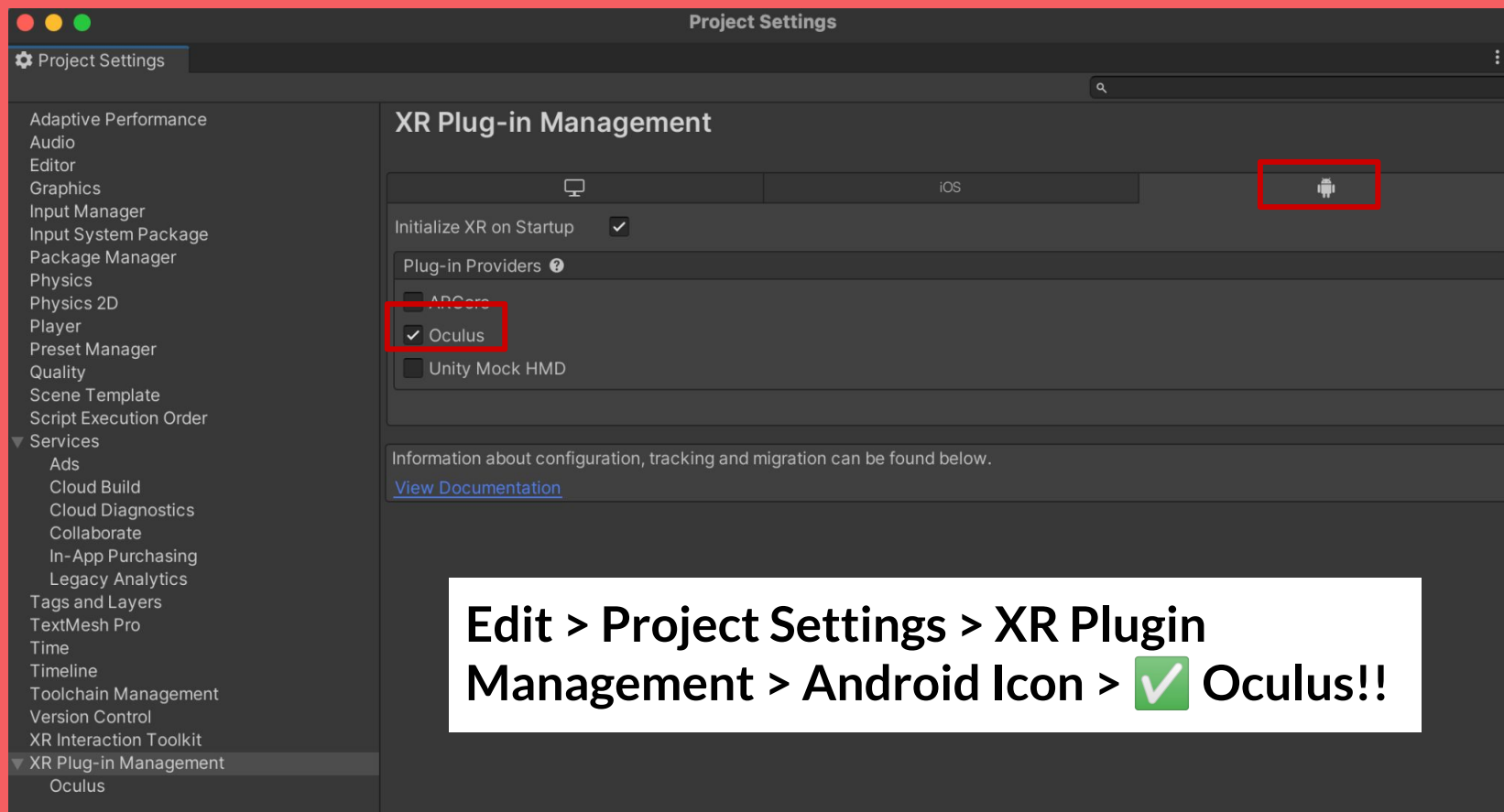
If you can't see XRIT...

XR Plugin Management

Window > Package Manager > In Unity
Registry > XR Plugin Management

Install!



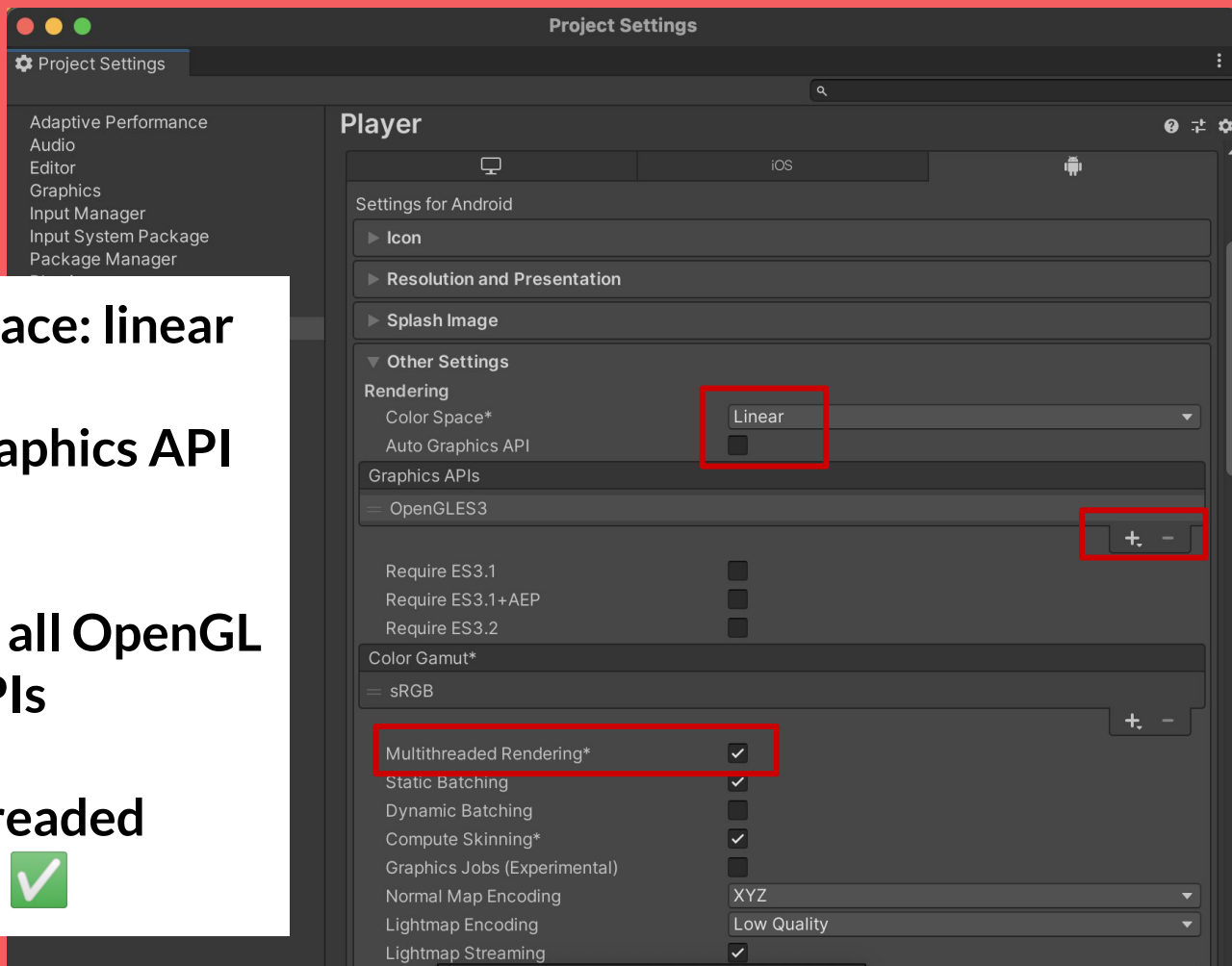


1. Color space: linear

2. Auto Graphics API
false

3. Remove all OpenGL
graphic APIs

4. Multithreaded
Rendering 

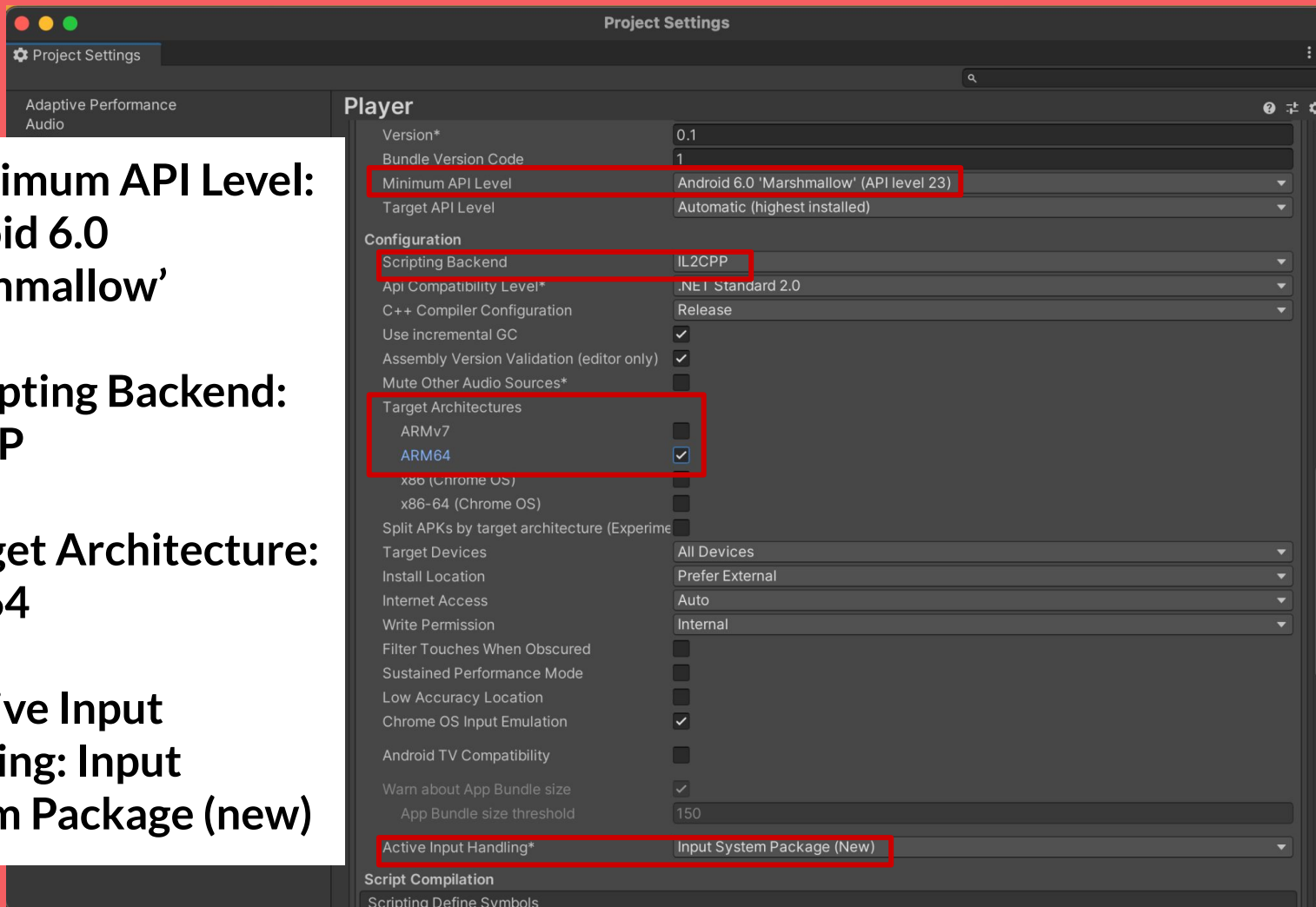


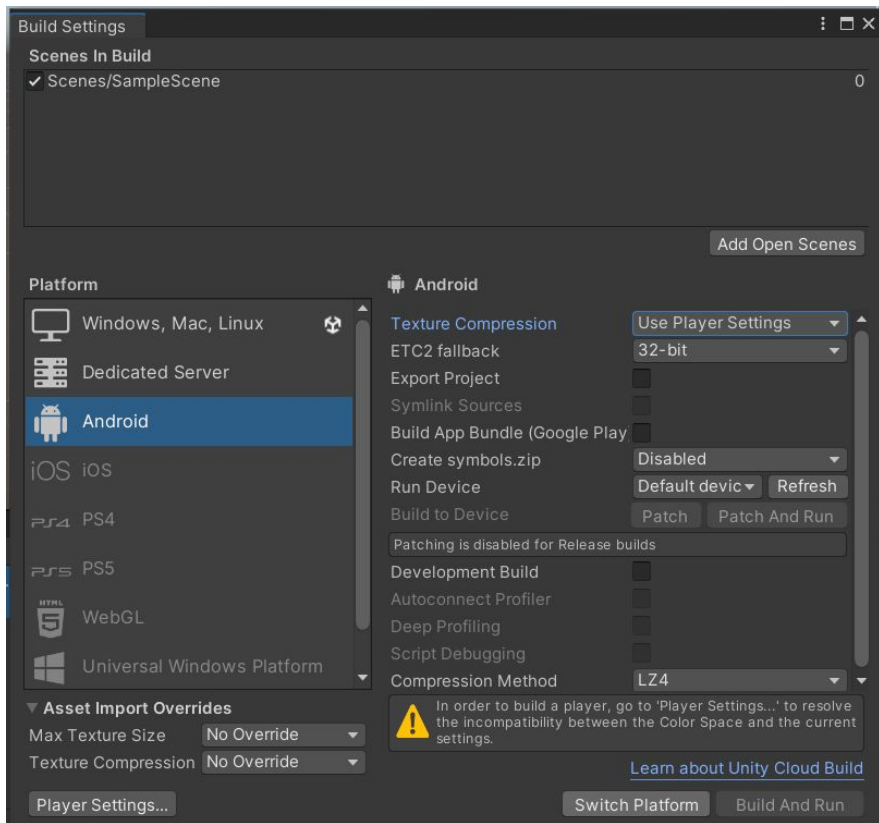
5. Minimum API Level:
Android 6.0
'Marshmallow'

6. Scripting Backend:
IL2CPP

7. Target Architecture:
ARM64

8. Active Input
Handling: Input
System Package (new)





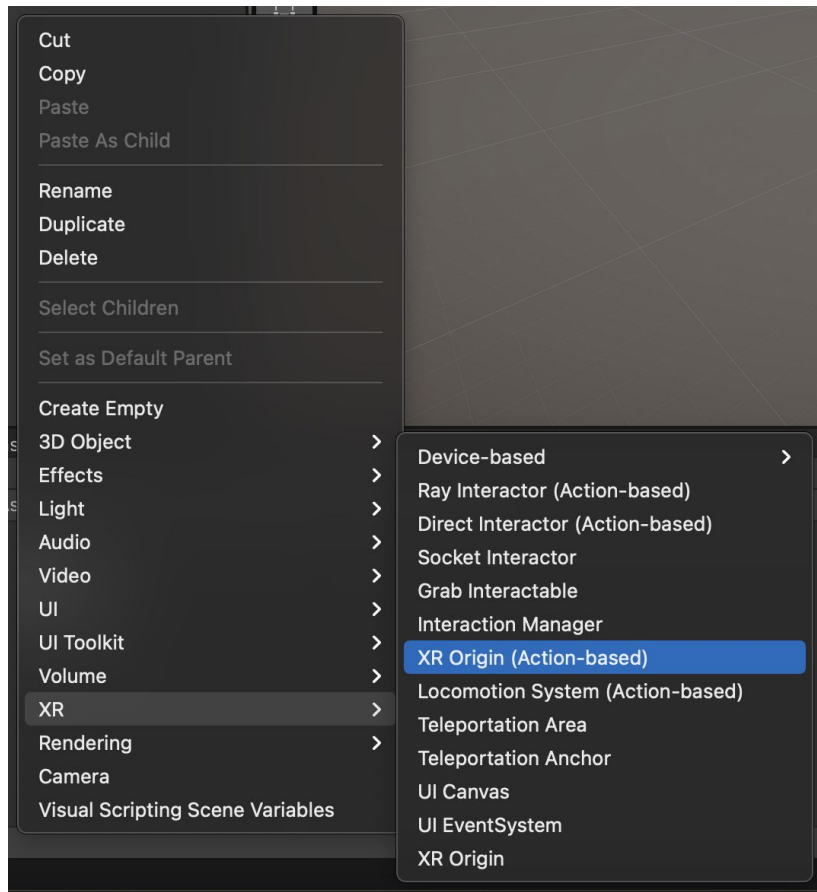
Build Setup

File > Build Settings

select **Android** under Platform

click **Switch Platform**

Player Navigation

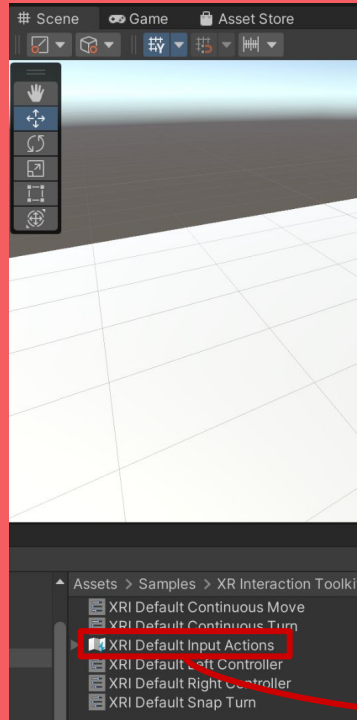
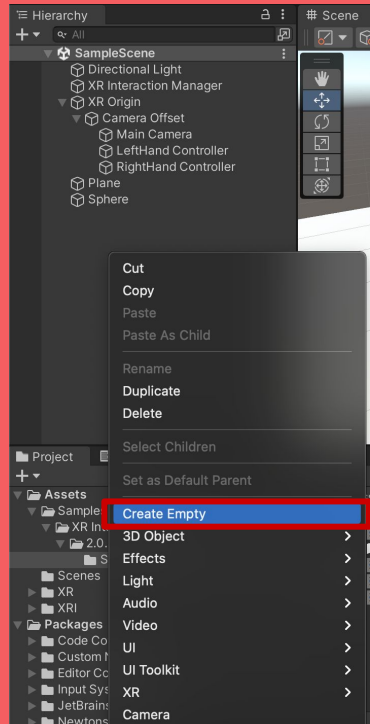


XR Origin Setup

Delete Main Camera

Add XR > XR Origin
(Action-based)

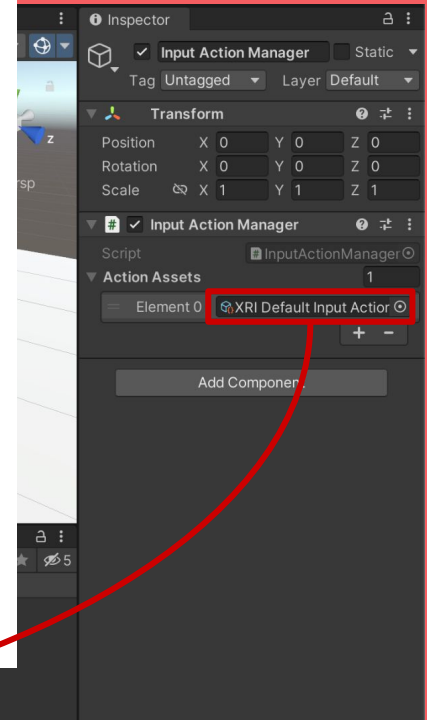
Input Action Manager



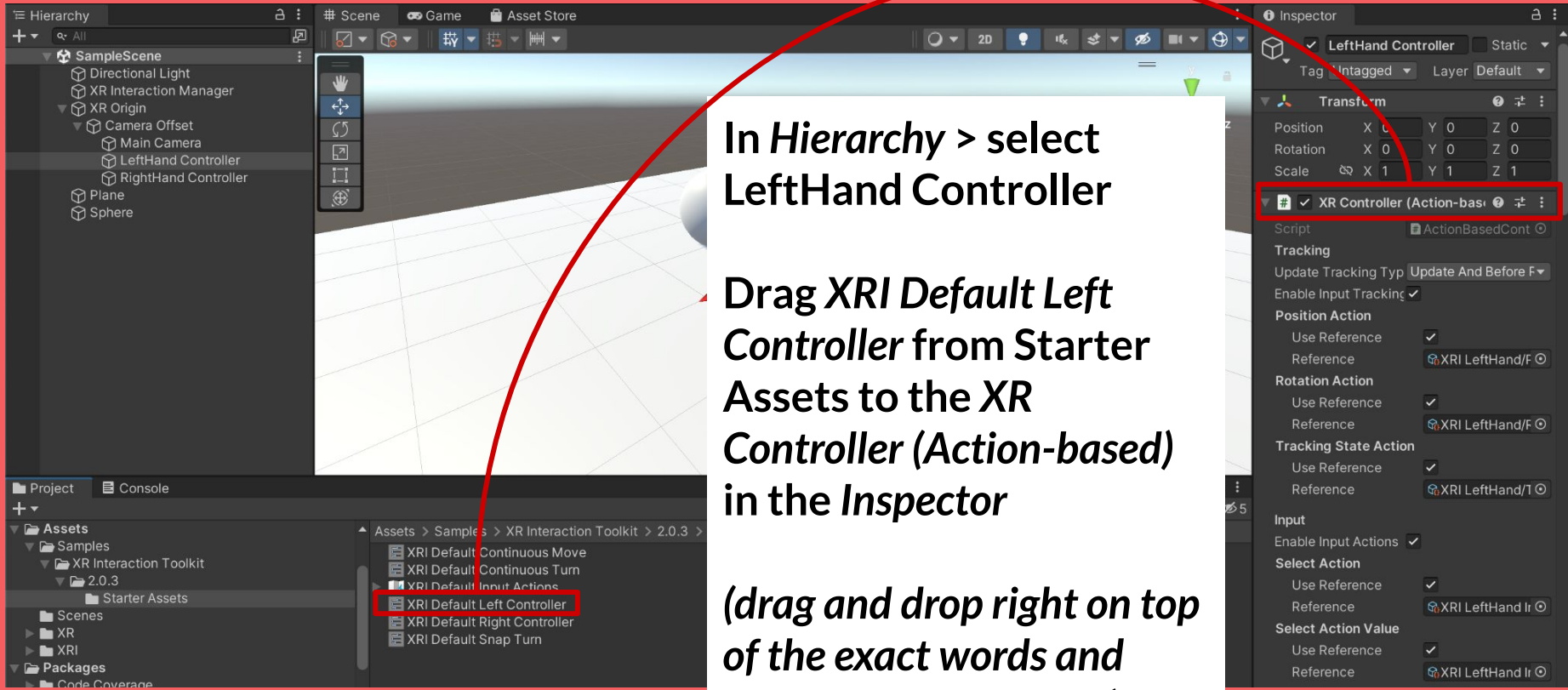
In *Hierarchy* >
Create Empty

In *Inspector* > Add
Component > *Input
Action Manager* > in
Action Assets press +

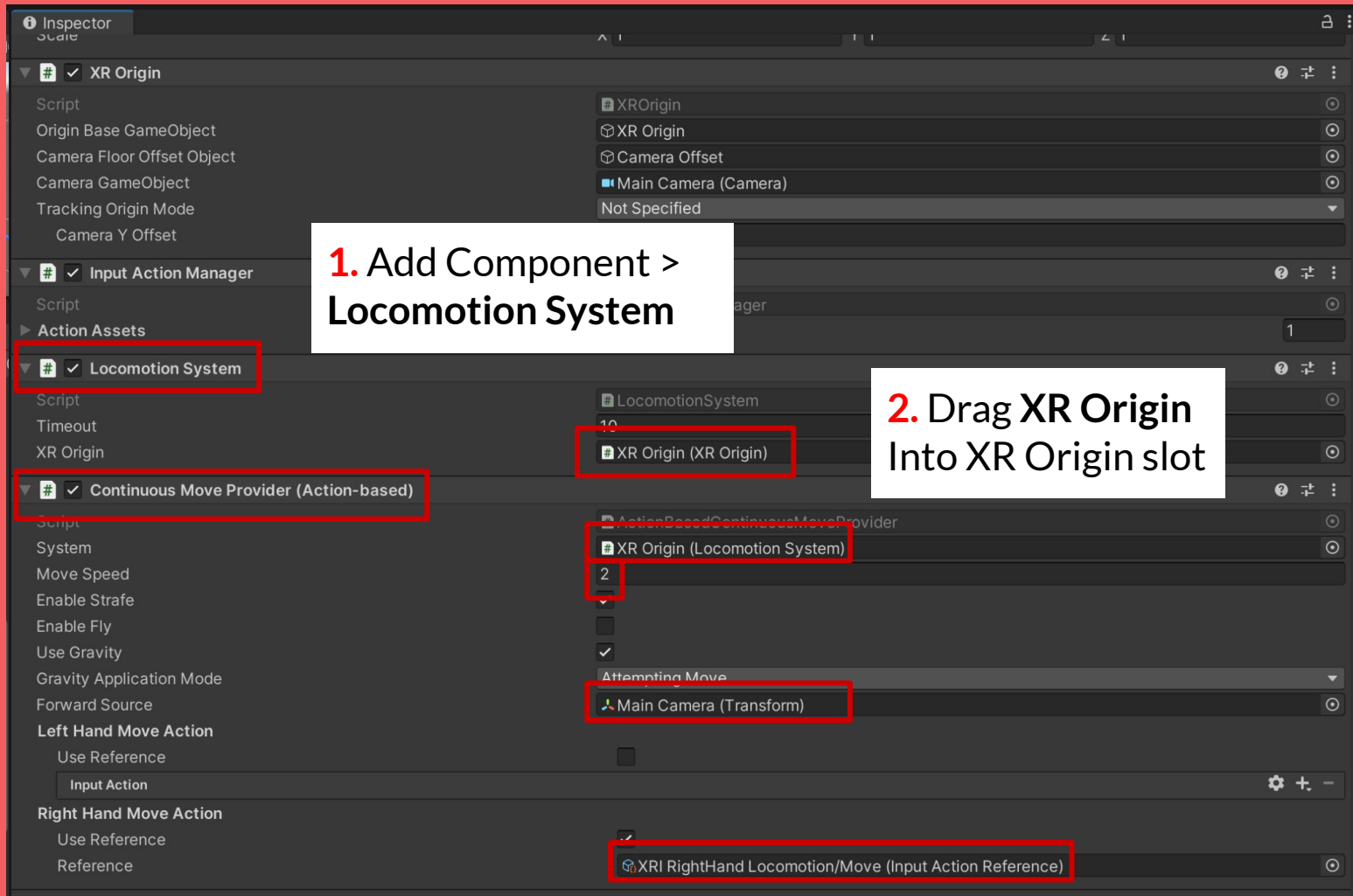
Drag *XRI Default Input
Actions* from Starter
Assets to Element slot

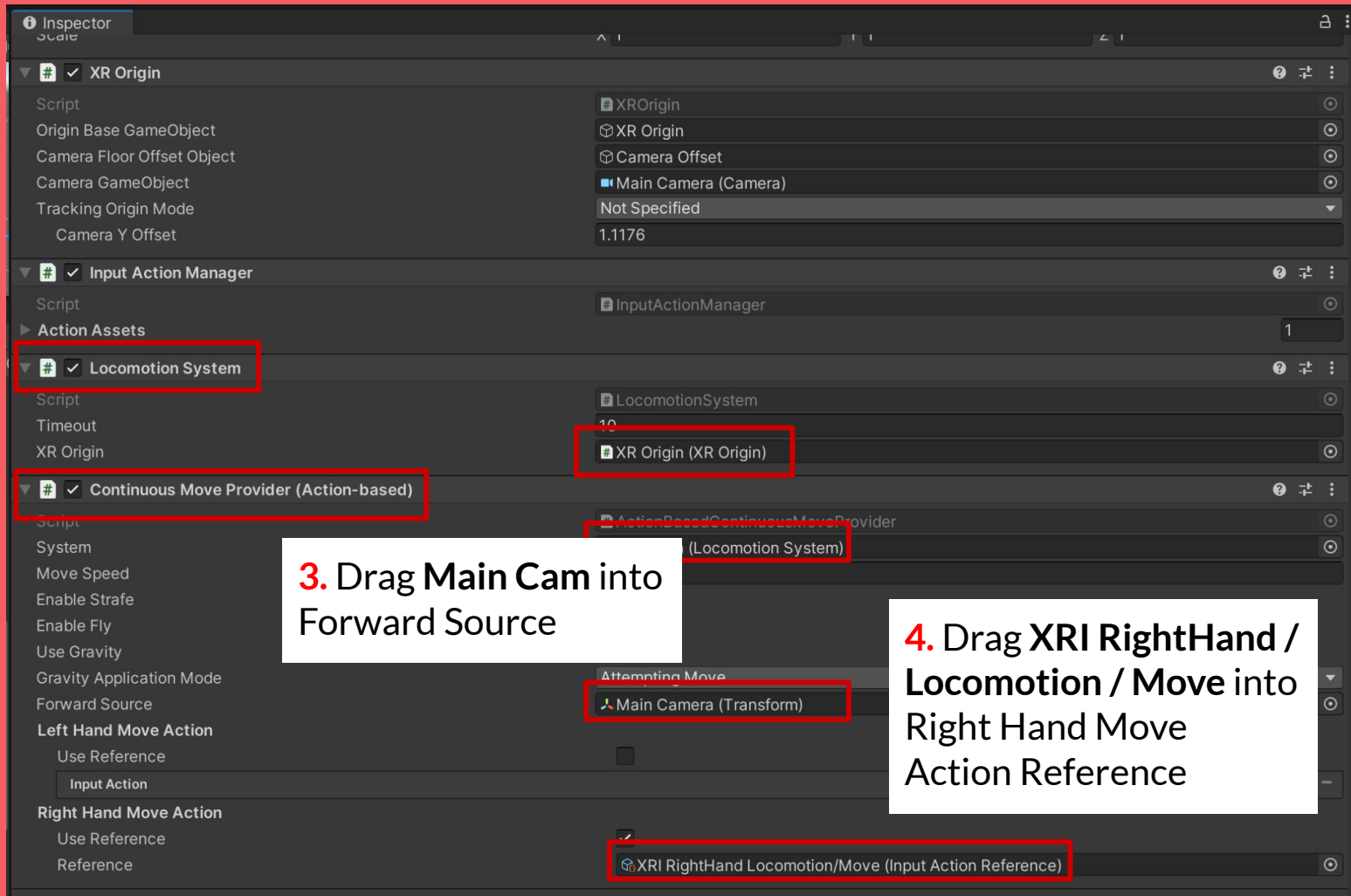


Controller Setup



Locomotion Setup





1. Add Component > Locomotion System

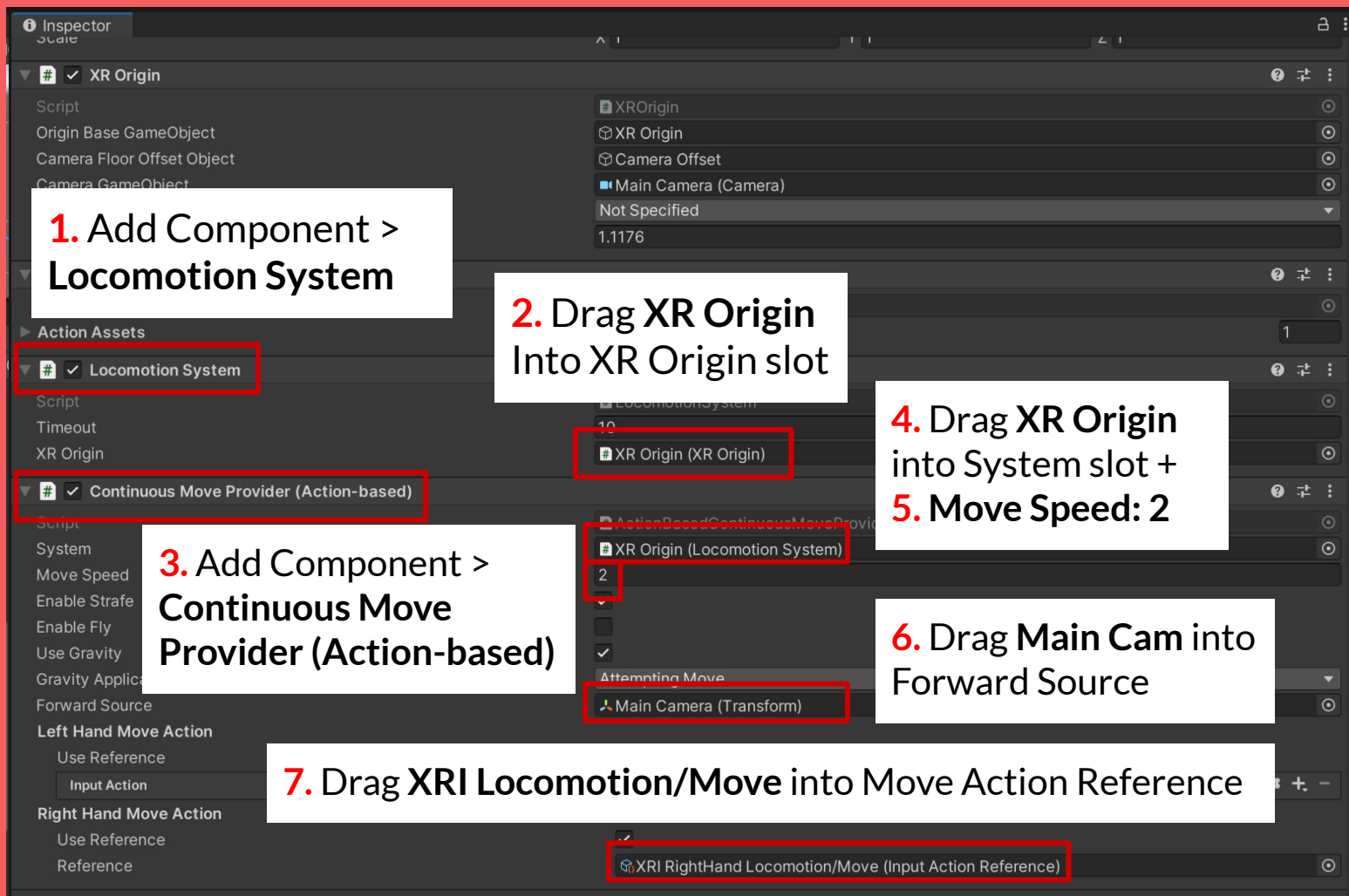
2. Drag XR Origin Into XR Origin slot

3. Add Component > Continuous Move Provider (Action-based)

**4. Drag XR Origin into System slot +
5. Move Speed: 2**

6. Drag Main Cam into Forward Source

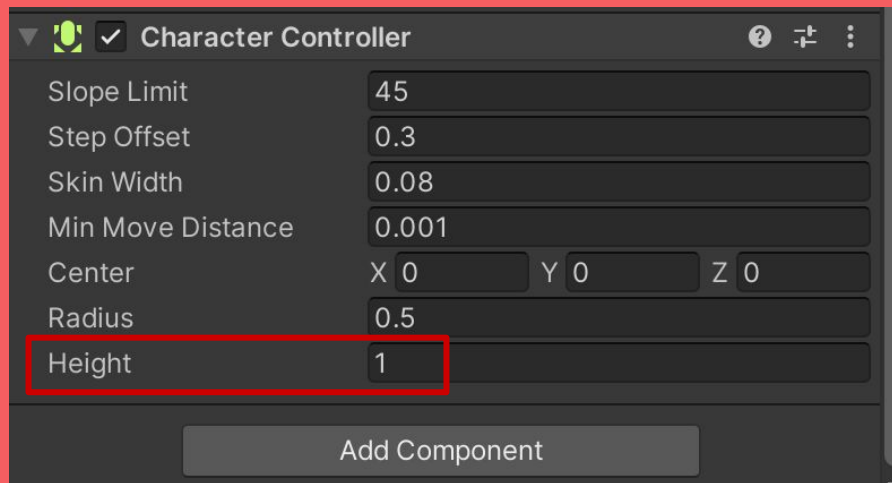
7. Drag XRI Locomotion/Move into Move Action Reference

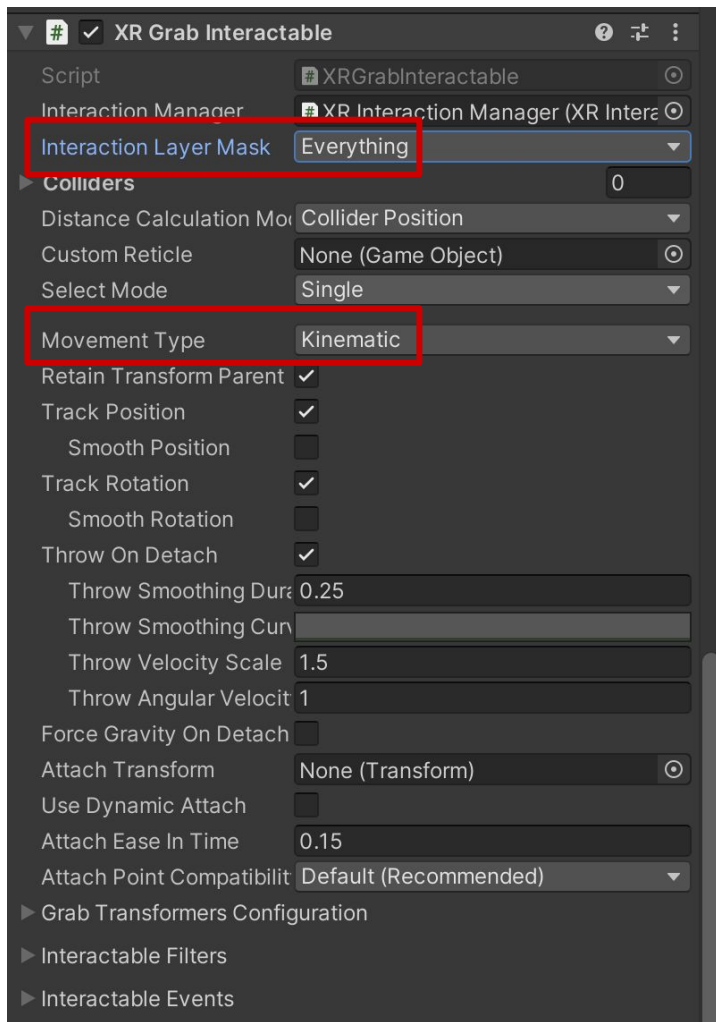


Character Controller

Add Component > **Character
Controller**

Set Height to 1





Object Grabbing

Add > 3D Object > Spheres

Select the sphere > **add component > XR Grab Interactable**

Set Interaction Layer Mask to Everything

Set Movement Type to Kinematic
