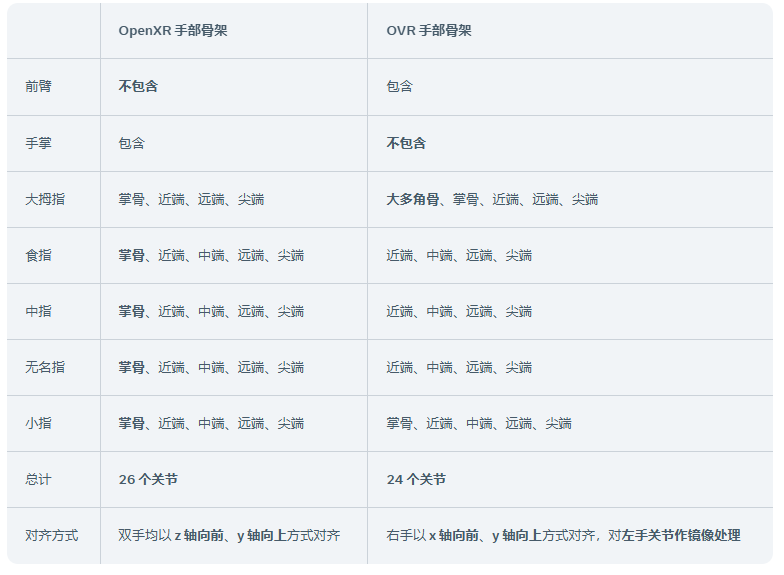
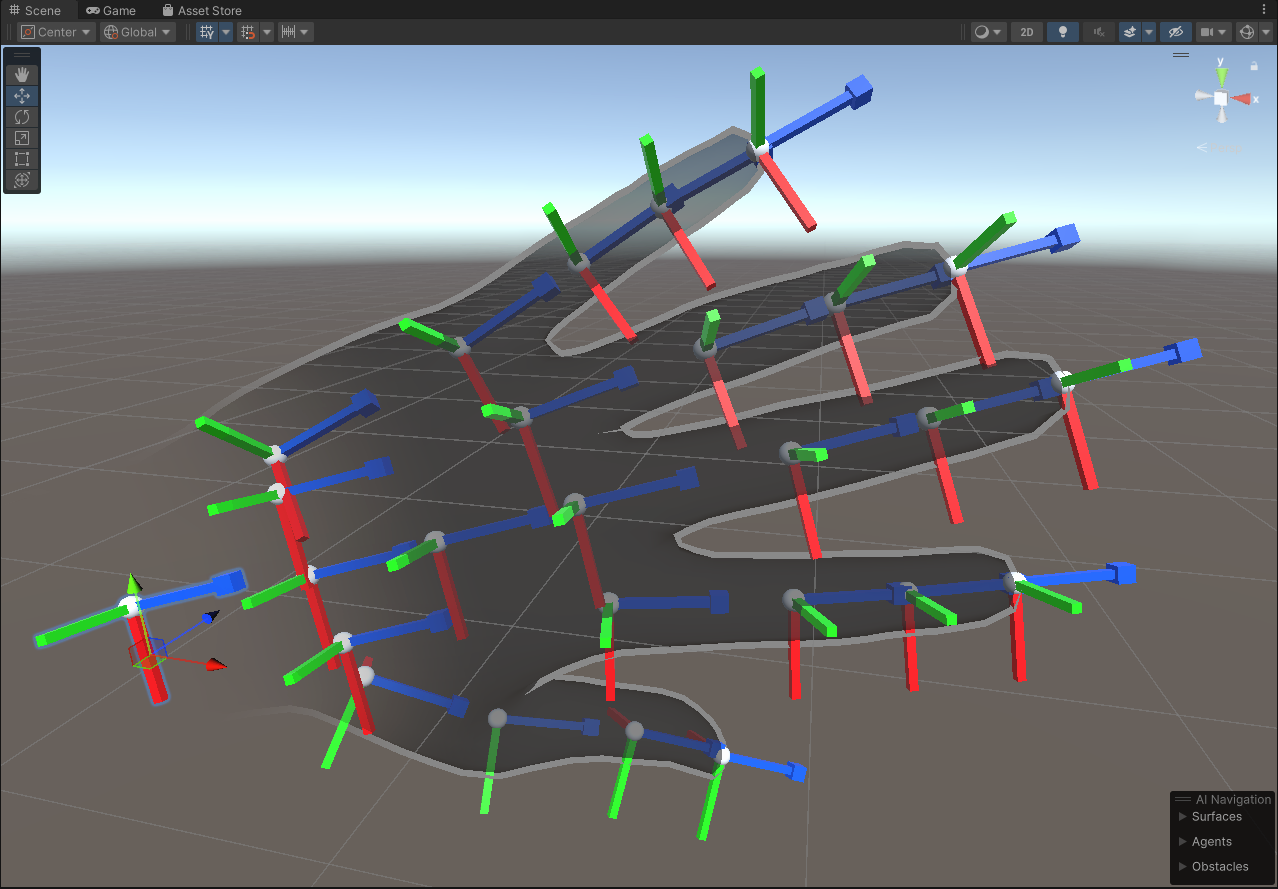


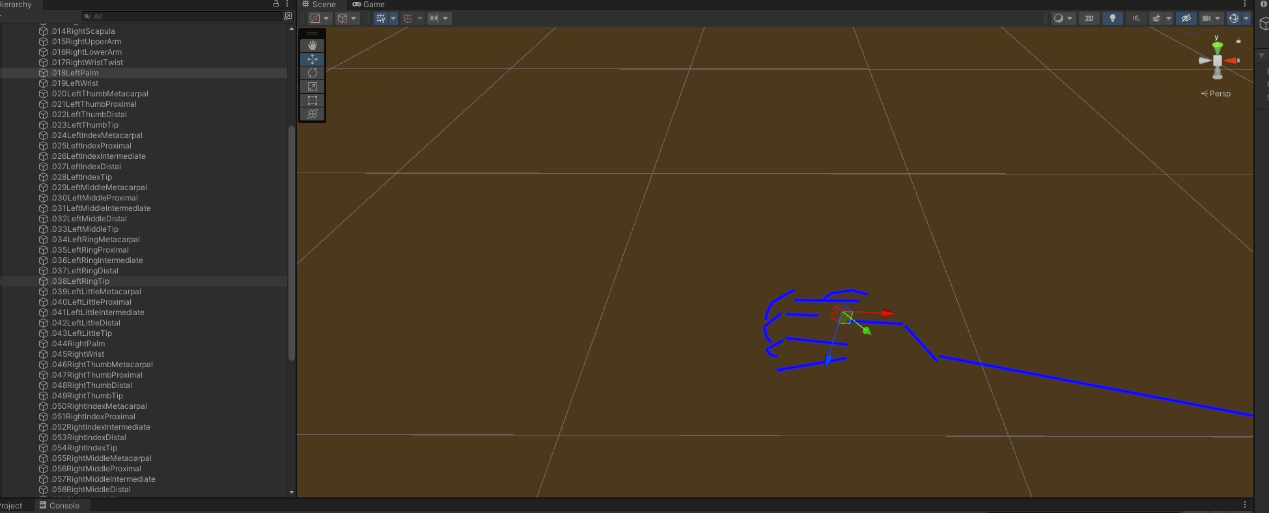
采用OpenXR手部骨架是新的，OVR是旧的。

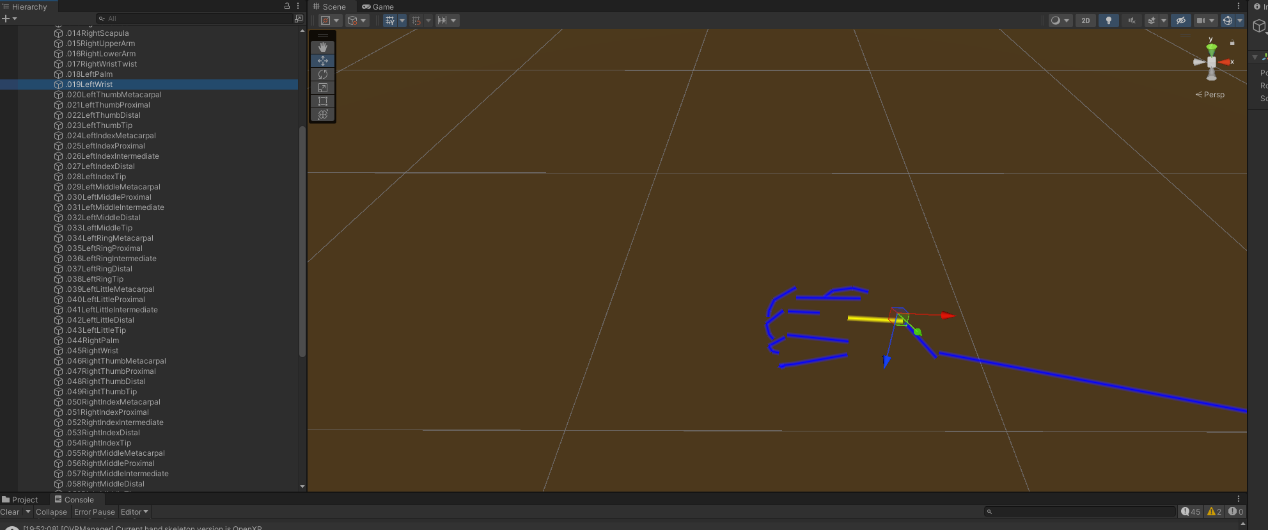


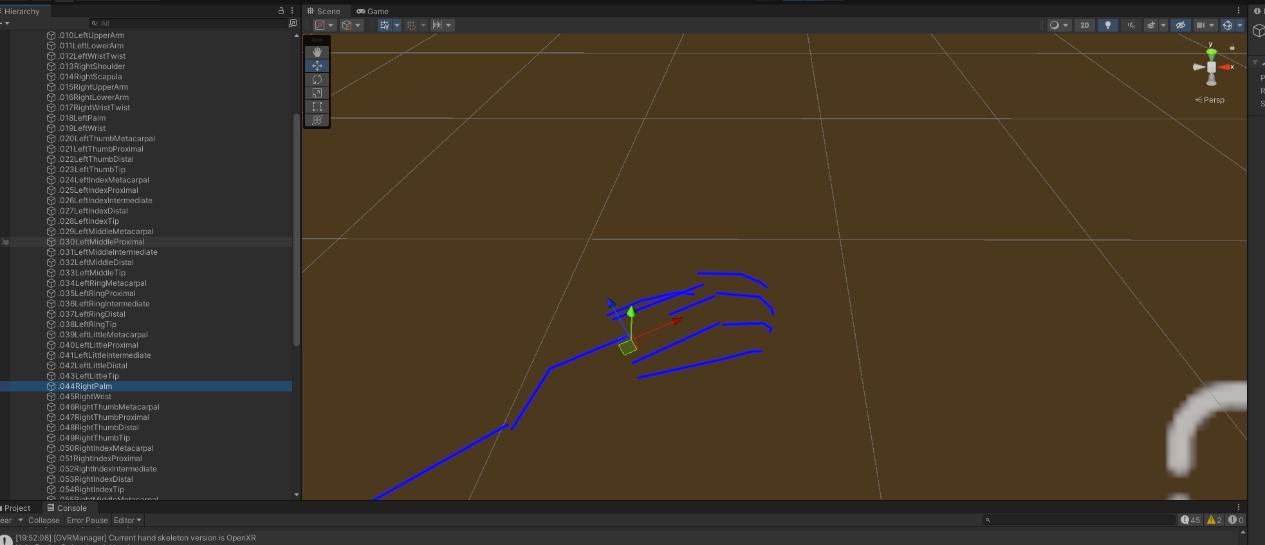


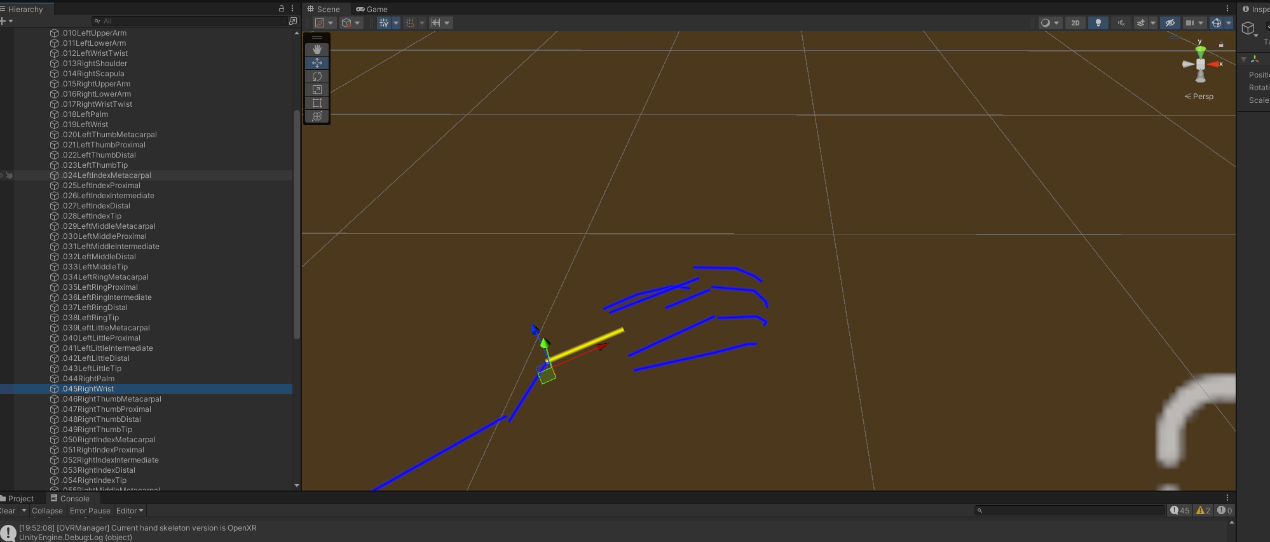


真正提取出的[84,7]矩阵手腕和手掌坐标系方向定义









MANO模型关键点定义



导出的Body关节定义，用从0(root)到83。左手为18-43，右手为44-69

public enum *BodyJointId*

{

    Invalid = -1,

    [InspectorName("Body Start")]

    Body\_Start = 0,

    [InspectorName("Root")]

    Body\_Root = 0,

    [InspectorName("Hips")]

    Body\_Hips = 1,

    [InspectorName("Spine Lower")]

    Body\_SpineLower = 2,

    [InspectorName("Spine Middle")]

    Body\_SpineMiddle = 3,

    [InspectorName("Spine Upper")]

    Body\_SpineUpper = 4,

    [InspectorName("Chest")]

    Body\_Chest = 5,

    [InspectorName("Neck")]

    Body\_Neck = 6,

    [InspectorName("Head")]

    Body\_Head = 7,

    [InspectorName("Left Arm/Left Shoulder")]

    Body\_LeftShoulder = 8,

    [InspectorName("Left Arm/Left Scapula")]

    Body\_LeftScapula = 9,

    [InspectorName("Left Arm/Left Arm Upper")]

    Body\_LeftArmUpper = 10,

    [InspectorName("Left Arm/Left Arm Lower")]

    Body\_LeftArmLower = 11,

    [InspectorName("Left Arm/Left Hand Wrist Twist")]

    Body\_LeftHandWristTwist = 12,

    [InspectorName("Right Arm/Right Shoulder")]

    Body\_RightShoulder = 13,

    [InspectorName("Right Arm/Right Scapula")]

    Body\_RightScapula = 14,

    [InspectorName("Right Arm/Right Arm Upper")]

    Body\_RightArmUpper = 15,

    [InspectorName("Right Arm/Right Arm Lower")]

    Body\_RightArmLower = 16,

    [InspectorName("Right Arm/Right Hand Wrist Twist")]

    Body\_RightHandWristTwist = 17,

    [InspectorName("Left Hand/Left Hand Palm")]

    Body\_LeftHandPalm = 18,0

    [InspectorName("Left Hand/Left Hand Wrist")]

    Body\_LeftHandWrist = 19,1

    [InspectorName("Left Hand/Left Hand Thumb Metacarpal")]

    Body\_LeftHandThumbMetacarpal = 20,2

    [InspectorName("Left Hand/Left Hand Thumb Proximal")]

    Body\_LeftHandThumbProximal = 21,3

    [InspectorName("Left Hand/Left Hand Thumb Distal")]

    Body\_LeftHandThumbDistal = 22,4

    [InspectorName("Left Hand/Left Hand Thumb Tip")]

    Body\_LeftHandThumbTip = 23,5

    [InspectorName("Left Hand/Left Hand Index Metacarpal")]

    Body\_LeftHandIndexMetacarpal = 24,6

    [InspectorName("Left Hand/Left Hand Index Proximal")]

    Body\_LeftHandIndexProximal = 25,7

    [InspectorName("Left Hand/Left Hand Index Intermediate")]

    Body\_LeftHandIndexIntermediate = 26,8

    [InspectorName("Left Hand/Left Hand Index Distal")]

    Body\_LeftHandIndexDistal = 27,9

    [InspectorName("Left Hand/Left Hand Index Tip")]

    Body\_LeftHandIndexTip = 28,10

    [InspectorName("Left Hand/Left Hand Middle Metacarpal")]

    Body\_LeftHandMiddleMetacarpal = 29,11

    [InspectorName("Left Hand/Left Hand Middle Proximal")]

    Body\_LeftHandMiddleProximal = 30,12

    [InspectorName("Left Hand/Left Hand Middle Intermediate")]

    Body\_LeftHandMiddleIntermediate = 31,13

    [InspectorName("Left Hand/Left Hand Middle Distal")]

    Body\_LeftHandMiddleDistal = 32,14

    [InspectorName("Left Hand/Left Hand Middle Tip")]

    Body\_LeftHandMiddleTip = 33,15

    [InspectorName("Left Hand/Left Hand Ring Metacarpal")]

    Body\_LeftHandRingMetacarpal = 34,16

    [InspectorName("Left Hand/Left Hand Ring Proximal")]

    Body\_LeftHandRingProximal = 35,17

    [InspectorName("Left Hand/Left Hand Ring Intermediate")]

    Body\_LeftHandRingIntermediate = 36,18

    [InspectorName("Left Hand/Left Hand Ring Distal")]

    Body\_LeftHandRingDistal = 37,19

    [InspectorName("Left Hand/Left Hand Ring Tip")]

    Body\_LeftHandRingTip = 38,20

    [InspectorName("Left Hand/Left Hand Little Metacarpal")]

    Body\_LeftHandLittleMetacarpal = 39,21

    [InspectorName("Left Hand/Left Hand Little Proximal")]

    Body\_LeftHandLittleProximal = 40,22

    [InspectorName("Left Hand/Left Hand Little Intermediate")]

    Body\_LeftHandLittleIntermediate = 41,23

    [InspectorName("Left Hand/Left Hand Little Distal")]

    Body\_LeftHandLittleDistal = 42,24

    [InspectorName("Left Hand/Left Hand Little Tip")]

    Body\_LeftHandLittleTip = 43,25

    [InspectorName("Right Hand/Right Hand Palm")]

    Body\_RightHandPalm = 44,0

    [InspectorName("Right Hand/Right Hand Wrist")]

    Body\_RightHandWrist = 45,1

    [InspectorName("Right Hand/Right Hand Thumb Metacarpal")]

    Body\_RightHandThumbMetacarpal = 46,2

    [InspectorName("Right Hand/Right Hand Thumb Proximal")]

    Body\_RightHandThumbProximal = 47,3

    [InspectorName("Right Hand/Right Hand Thumb Distal")]

    Body\_RightHandThumbDistal = 48,4

    [InspectorName("Right Hand/Right Hand Thumb Tip")]

    Body\_RightHandThumbTip = 49,5

    [InspectorName("Right Hand/Right Hand Index Metacarpal")]

    Body\_RightHandIndexMetacarpal = 50,6

    [InspectorName("Right Hand/Right Hand Index Proximal")]

    Body\_RightHandIndexProximal = 51,7

    [InspectorName("Right Hand/Right Hand Index Intermediate")]

    Body\_RightHandIndexIntermediate = 52,8

    [InspectorName("Right Hand/Right Hand Index Distal")]

    Body\_RightHandIndexDistal = 53,9

    [InspectorName("Right Hand/Right Hand Index Tip")]

    Body\_RightHandIndexTip = 54,10

    [InspectorName("Right Hand/Right Hand Middle Metacarpal")]

    Body\_RightHandMiddleMetacarpal = 55,11

    [InspectorName("Right Hand/Right Hand Middle Proximal")]

    Body\_RightHandMiddleProximal = 56,12

    [InspectorName("Right Hand/Right Hand Middle Intermediate")]

    Body\_RightHandMiddleIntermediate = 57,13

    [InspectorName("Right Hand/Right Hand Middle Distal")]

    Body\_RightHandMiddleDistal = 58,14

    [InspectorName("Right Hand/Right Hand Middle Tip")]

    Body\_RightHandMiddleTip = 59,15

    [InspectorName("Right Hand/Right Hand Ring Metacarpal")]

    Body\_RightHandRingMetacarpal = 60,16

    [InspectorName("Right Hand/Right Hand Ring Proximal")]

    Body\_RightHandRingProximal = 61,17

    [InspectorName("Right Hand/Right Hand Ring Intermediate")]

    Body\_RightHandRingIntermediate = 62,18

    [InspectorName("Right Hand/Right Hand Ring Distal")]

    Body\_RightHandRingDistal = 63,19

    [InspectorName("Right Hand/Right Hand Ring Tip")]

    Body\_RightHandRingTip = 64,20

    [InspectorName("Right Hand/Right Hand Little Metacarpal")]

    Body\_RightHandLittleMetacarpal = 65,21

    [InspectorName("Right Hand/Right Hand Little Proximal")]

    Body\_RightHandLittleProximal = 66,22

    [InspectorName("Right Hand/Right Hand Little Intermediate")]

    Body\_RightHandLittleIntermediate = 67,23

    [InspectorName("Right Hand/Right Hand Little Distal")]

    Body\_RightHandLittleDistal = 68,24

    [InspectorName("Right Hand/Right Hand Little Tip")]

    Body\_RightHandLittleTip = 69,25

    [InspectorName("Left Leg/Left Leg Upper")]

    Body\_LeftLegUpper = 70,

    [InspectorName("Left Leg/Left Leg Lower")]

    Body\_LeftLegLower = 71,

    [InspectorName("Left Foot/Left Foot Ankle Twist")]

    Body\_LeftFootAnkleTwist = 72,

    [InspectorName("Left Foot/Left Foot Ankle")]

    Body\_LeftFootAnkle = 73,

    [InspectorName("Left Foot/Left Foot Subtalar")]

    Body\_LeftFootSubtalar = 74,

    [InspectorName("Left Foot/Left Foot Transverse")]

    Body\_LeftFootTransverse = 75,

    [InspectorName("Left Foot/Left Foot Ball")]

    Body\_LeftFootBall = 76,

    [InspectorName("Right Leg/Right Leg Upper")]

    Body\_RightLegUpper = 77,

    [InspectorName("Right Leg/Right Leg Lower")]

    Body\_RightLegLower = 78,

    [InspectorName("Right Foot/Right Foot Ankle Twist")]

    Body\_RightFootAnkleTwist = 79,

    [InspectorName("Right Foot/Right Foot Ankle")]

    Body\_RightFootAnkle = 80,

    [InspectorName("Right Foot/Right Foot Subtalar")]

    Body\_RightFootSubtalar = 81,

    [InspectorName("Right Foot/Right Foot Transverse")]

    Body\_RightFootTransverse = 82,

    [InspectorName("Right Foot/Right Foot Ball")]

    Body\_RightFootBall = 83,

    [InspectorName("Body End")]

    Body\_End = 84

}

左SAPIEN 关节名: ['if\_proximal\_joint', 'mf\_proximal\_joint', 'rf\_proximal\_joint', 'lf\_proximal\_joint', 'th\_root\_joint', 'if\_distal\_joint', 'mf\_distal\_joint', 'rf\_distal\_joint', 'lf\_distal\_joint', 'th\_proximal\_joint', 'th\_distal\_joint']

左重定向关节名: ['if\_proximal\_joint', 'if\_distal\_joint', 'lf\_proximal\_joint', 'lf\_distal\_joint', 'mf\_proximal\_joint', 'mf\_distal\_joint', 'rf\_proximal\_joint', 'rf\_distal\_joint', 'th\_root\_joint', 'th\_proximal\_joint', 'th\_distal\_joint']

【0，4，6，2，8，9】

