Humanoid ??

??

VRM ? Humaniod??????????????? Forward kinematics(FK/?????) ??????????

????? ??(??) ??????????

- hips(??) ????
- ???????

????? Gltf Scene?Unity Hierarchy??????????????????????????

- ?? Gltf Node?Unity GameObject??????????????????????????
- ?????????
- ???????????? => T-Pose?

> **??**
> ??VRM???????????? ???????? ? ??
> ??????????????????????????????

???? Unity ? HumanoidAvatar ?????????????????

https://docs.unity3d.com/Manual/AvatarCreationandSetup.html

????????????VRM ? Humanoid ?????????

- ??? Gltf Node (Unity GameObject) ??????0????????????
- ?????

> **??**
> ????????????????????????????????????XYZ????????????????????????????????

T-Pose

??????????????????

- ????
- ????????? XZ???(????) ? Z????45?

Unity ? Humanoid

? Unity ???????“Avatar”????????????“Humanoid”????? Avatar ? Unity ??????? Humanoid Avatar ?????? `fbx importer(fbx□□□)` ????????????? fbx ??????? Humanoid Avatar ?????????????????? Humanoid Avatar ?????? UniVRM ???? Humanoid Avatar?humanoid component

? BVH ????

?????? `T-Pose` ? BVH ?????

- ??????? hips?
- ? hips ?????????????????

??

????? Unity ???? HumanBodyBones ???

- ?????????????? GLTF ? skin ? joint?Unity ? SkinnedMeshRenderer ????
  ????????????????????????????????
- ?????????
- ???????? Humanoid ???????LowerLeg ????????? UpperLeg?
- ?“hips”?? Root(???)????????????????????
  - hips - spine - chest - (upper chest) - neck - head
    - ? head ?? - (eye)
    - ? head ?? - (eye)
    - ? chest ? upper chest ?? - (shoulder) - upper arm - lower arm - hand - (fingers)
    - ? chest ? upper chest ?? - (shoulder) - upper arm - lower arm - hand - (fingers)
    - ? hips ?? - upper leg - lower leg - foot - (toes)
    - ? hips ?? - upper leg - lower leg - foot - (toes)
  - ????????? Humanoid ????????? LowerLeg ????? empty?? empty ????? UpperLeg??
  - ???????????? UpperArm? ????? shoulder ?? chest??

????

- https://github.com/vrm-c/vrm-specification/issues/87

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- Mecanim Humanoids
- ? Blender ??? Unity ? Humanoid ??? fbx ??

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