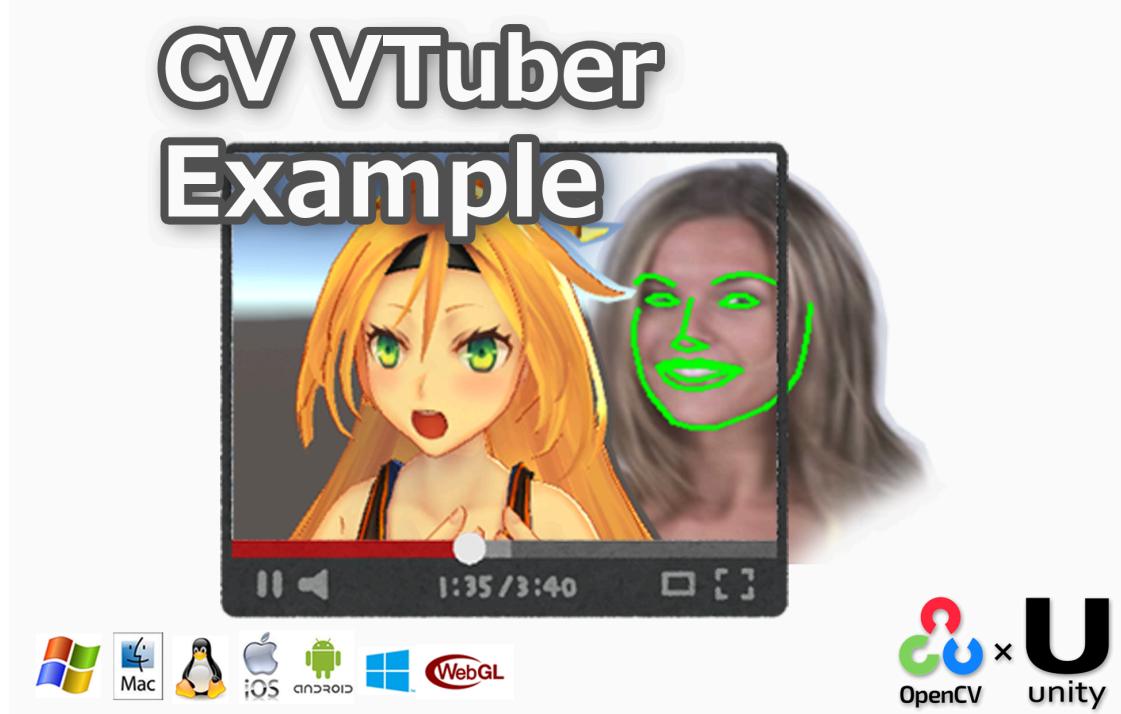


CV VTuber Example 1.1.0



WebGL support
iOS & Android support
Windows10 UWP support
Win & Mac & Linux Standalone support
Support for preview in the **Editor**
Work with **Unity Free & Pro**

System Requirements

Build Win Standalone & Preview Editor : Windows8 or later
Build Mac Standalone & Preview Editor : OSX 10.13 or later

The execution of this asset is required "[OpenCV for Unity](#)" and "[Dlib FaceLandmark Detector](#)".

Features:

- CVVTuberExample(Computer Vision Virtual YouTuber Example) is an example project of controlling 3D humanoid model (Mecanim Humanoid, "[Unity-chan!" Model](#), [VRM Model](#), [Live2DCubism5 Model](#)) using WebCamTexture. You can control the head orientation and the facial expression of the 3D humanoid model using WebCamTexture only.
- The head orientation and face expression are controlled by the following procedure.
 1. **WebCamTextureMatSourceGetter** - Convert WebCamTexture to OpenCV's Mat

- class.
2. **DlibFaceLandmarkGetter** - Detect a face landmark points from OpenCV's Mat class.
 3. **DlibHeadRotationGetter** - Estimate head orientation from face landmark points.
 4. **HeadRotationController** - Control the head orientation of the 3D model using the estimated head orientation.
 5. **HeadLookAtIKController** - Set Animator.SetLookAtPosition() method using the estimated head orientation.
 6. **DlibFaceBlendShapeController** - Control the face BlendShape of the 3D model using the face landmark point.

Basic Examples:

- WebCamTexture CV VTuber Example
- VideoCapture CV VTuber Example

Advanced Examples: (require add-ons setup)

- UnityChan CV VTuber Example
- VRM CV VTuber Example
- Live2DCubism5 CV VTuber Example

[Official Site](#) | [ExampleCode](#) | [Android Demo](#) [WebGL Demo](#)

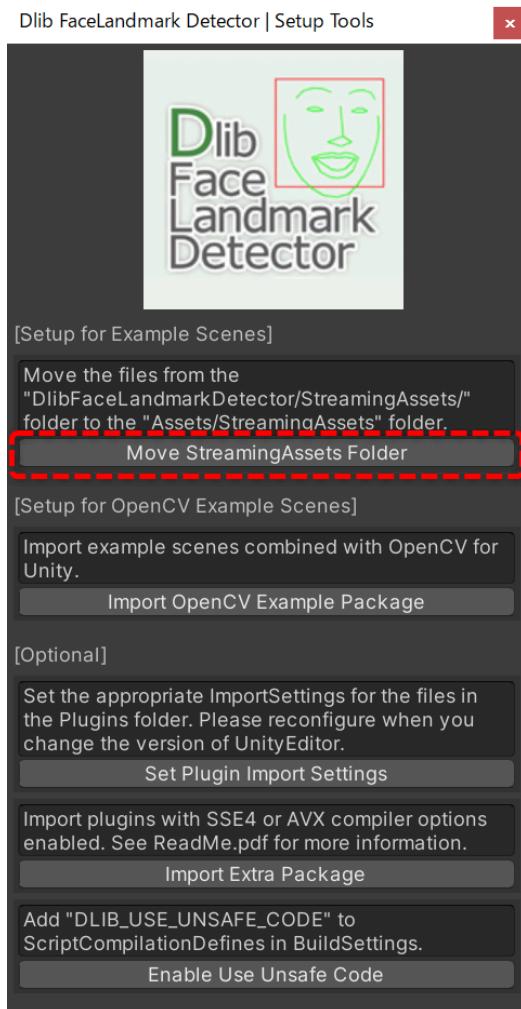
Version changes:

- 1.1.0** [Common]Changed the minimum supported version to Unity2021.3.35f1.
 [Common]Separated the examples using the Built-in Render Pipeline and Scriptable Render Pipeline. (Except UnityChanCVVTuberExample and VRMCVVTuberExample.)
 [Common]Updated for UniVRM-0.124.1_e606.unitypackage. Added RuntimeVRMMetaLoader functionality. [Common]Updated for CubismSdkForUnity-5-r.2.unitypackage.
- 1.0.9** [Common]Updated for OpenCV for Unity v2.5.9. (This asset requires OpenCVforUnity 2.5.9 or later.) [Common]Updated for Dlib FaceLandmark Detector v1.3.8. (This asset requires Dlib FaceLandmark Detector v1.3.8 or later.)
- 1.0.8** [Common]Updated for OpenCV for Unity v2.5.0. (This asset requires OpenCVforUnity 2.5.0 or later.) [Common]Updated for Dlib FaceLandmark Detector v1.3.4. (This asset requires Dlib FaceLandmark Detector v1.3.4 or later.) [Common]Updated for UniVRM-0.99.4_8d33. [Common]Updated for Cubism 4 SDK for Unity R5.
- 1.0.7** [Common]Updated support version to Unity-2019.4LTS. [Common]Updated for OpenCV for Unity v2.4.7. [Common]Updated for Dlib FaceLandmark Detector v1.3.3. [Common]Updated for UniVRM-0.95.1. [Common]Updated for Cubism SDK for Unity R4_1. [Common]Refactored the script.
- 1.0.6** [Common]Updated for OpenCV for Unity v2.4.2. [Common]Updated for Dlib FaceLandmark Detector v1.3.2. [Common]Removed Live2DCubism2CVVTuber Example and Live2DCubism3CVVTuber Example. [Common]Added Live2DCubism4CVVTuber Example. [Common]Refactored the script.
- 1.0.5** [Common]Updated for OpenCV for Unity v2.3.8.

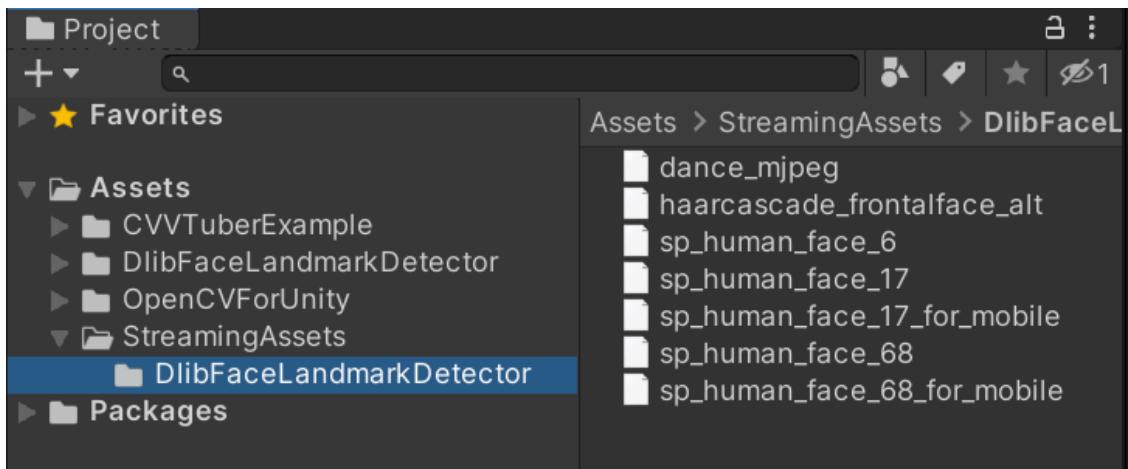
- 1.0.4** [Common]Updated for OpenCV for Unity v2.3.4. [Common]Added Live2DCubism3CVVTuber Example.
- 1.0.3** [Common]Updated for Dlib FaceLandmark Detector v1.2.6. [Common]Refactored the script.
- 1.0.2** [Common]Updated for OpenCV for Unity v2.3.3.(This asset requires OpenCVforUnity 2.3.3 or later.) [Common]Updated for Dlib FaceLandmark Detector v1.2.5.(This asset requires Dlib FaceLandmark Detector 1.2.5 or later.)
- 1.0.1** [Common]largely changed the folder structure of asset package.(If there is a previous version of CVVTuberExample in the project, please delete the CVVTuberExample folder first and then import the new version.) [Common]Added WebCamTextureCVVTuberExample, VideoCaptureCVVTuberExample, UnityChanCVVTuberExample, VRMCVVTuberExample and Live2DCubism2CVVTuberExample.
- 1.0.0** Initial version.

Quick setup procedure to run the Basic Example scenes:

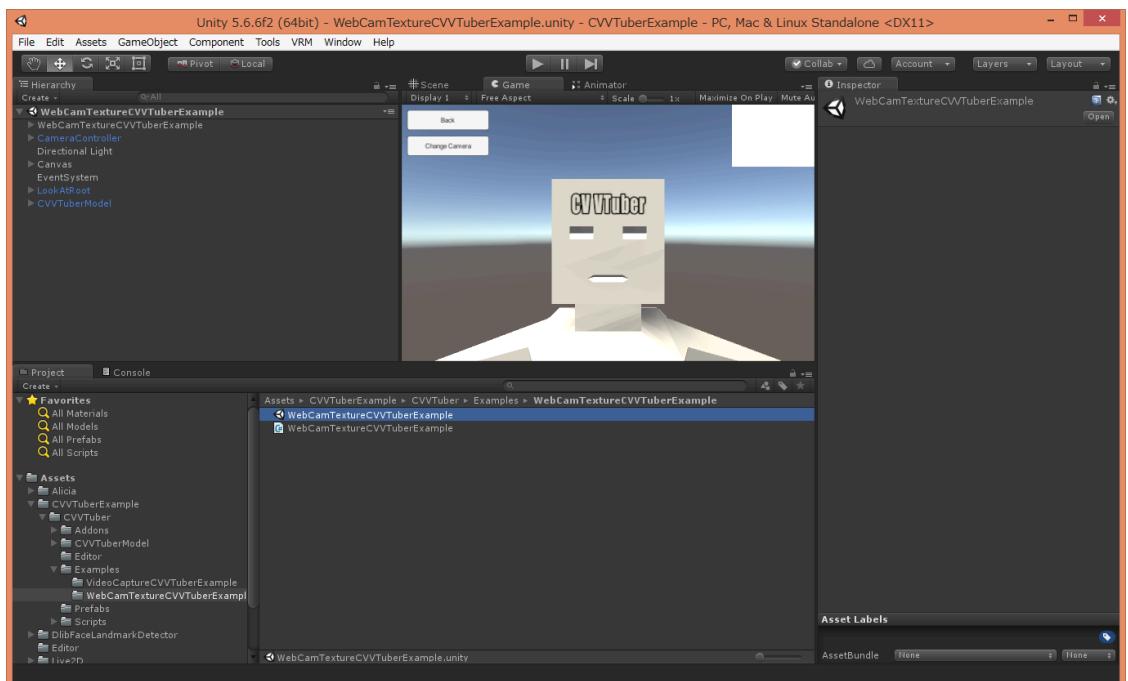
1. Import “[CVVTuberExample](#)”. (If there is a previous version of CVVTuberExample in the project, please delete the CVVTuberExample folder first and then import the new version.)
2. Import “[OpenCVForUnity](#)”.
3. Import “[Dlib FaceLandmark Detector](#)”.
4. Select MenuItem[Tools/Dlib FaceLandmark Detector/Open Setup Tools]. Click the [Move StreamingAssets Folder] button.



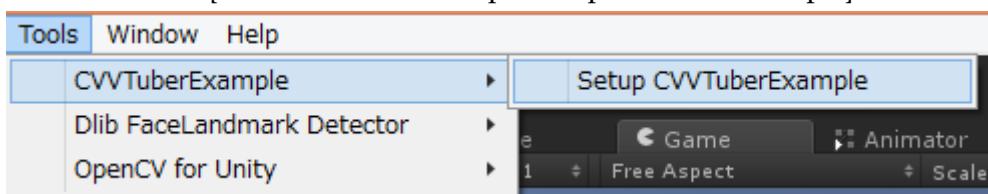
The following files are the only files required for this Example, so other files may be deleted.



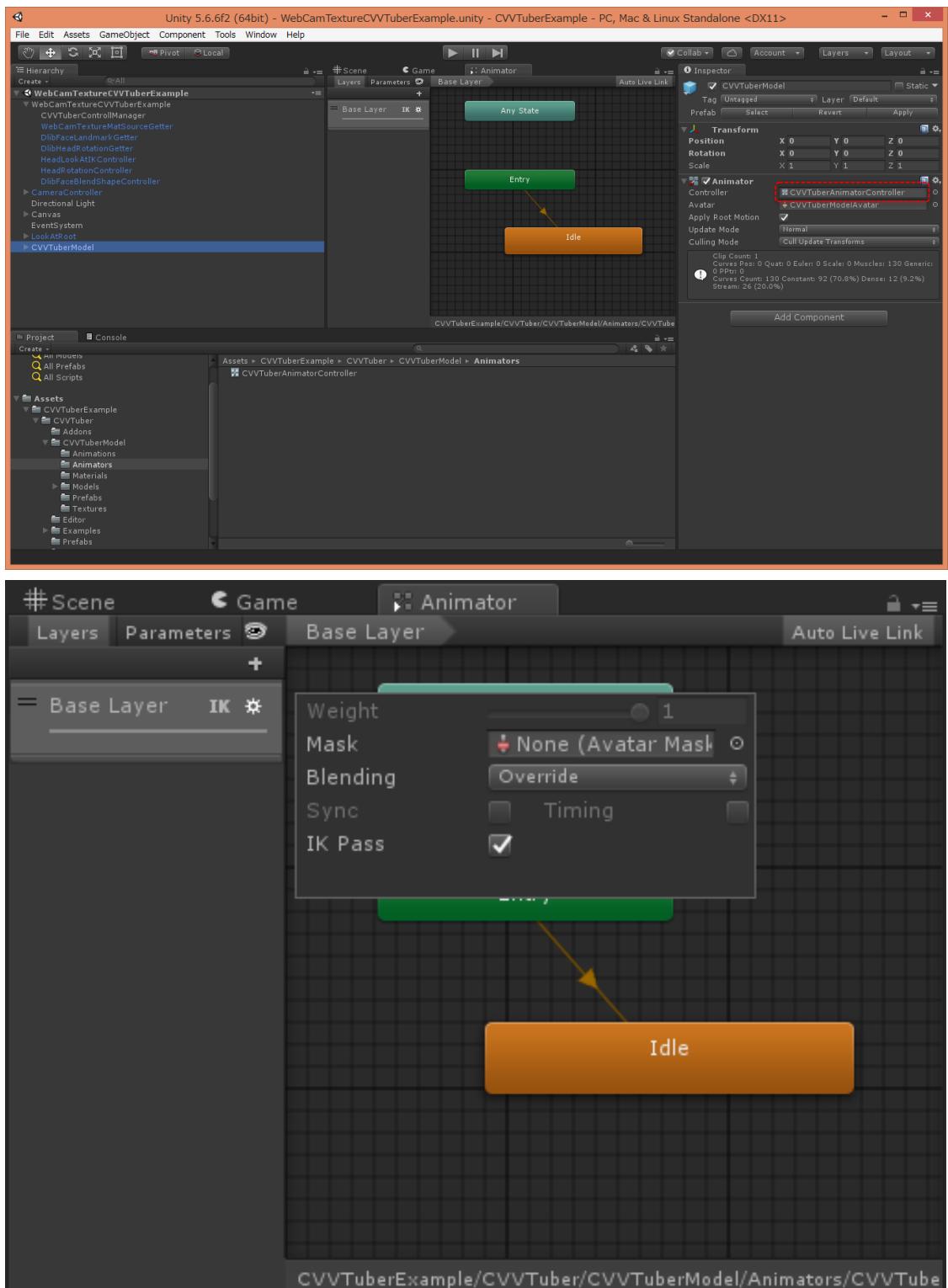
5. Open
“Assets/CVVTuberExample/CVVTuber/Examples/WebCamTextureCVVTuberExample”
scene.



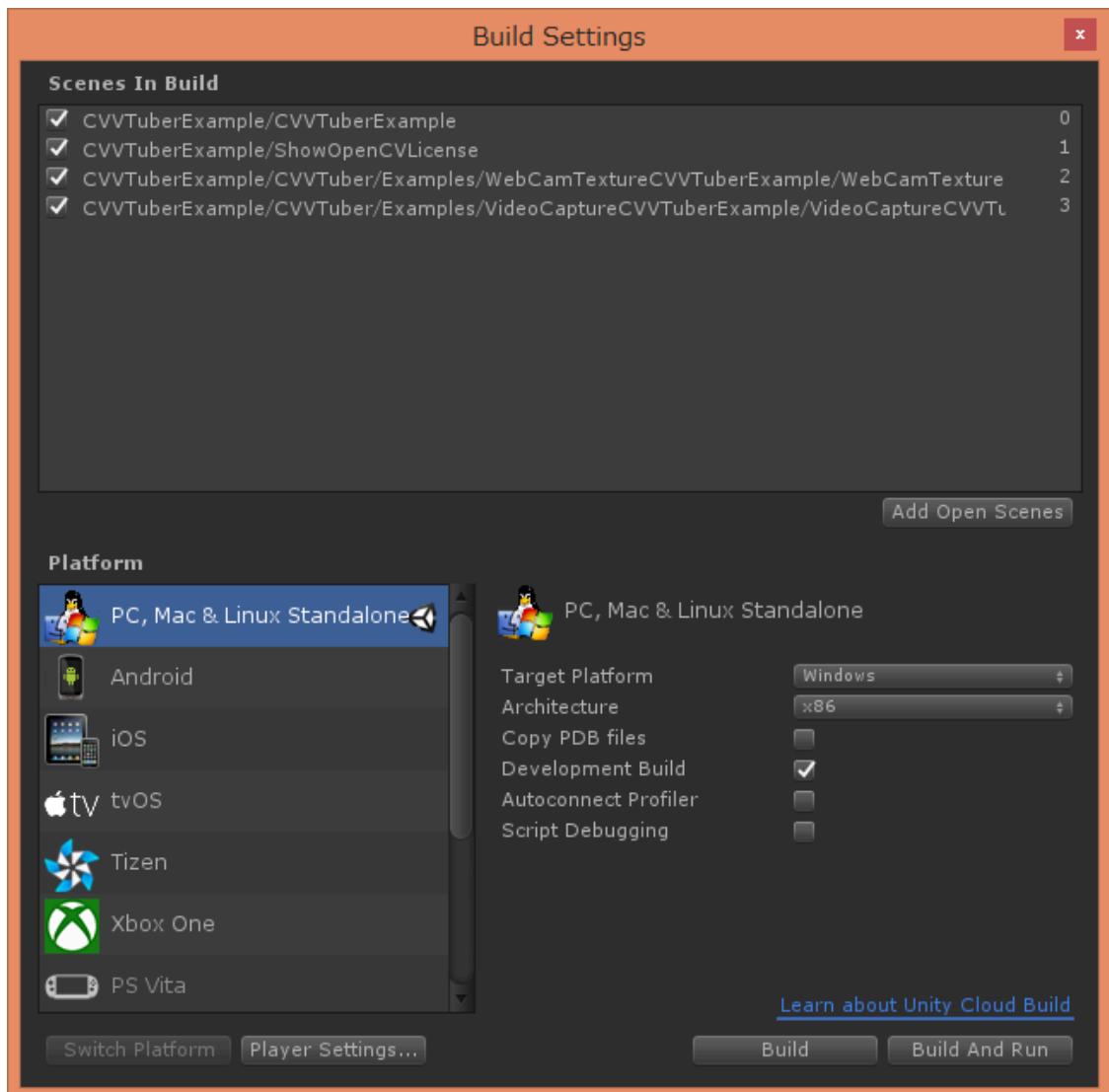
6. Select MenuItem[Tools/CVVTuberExample/Setup CVVTuberExample].



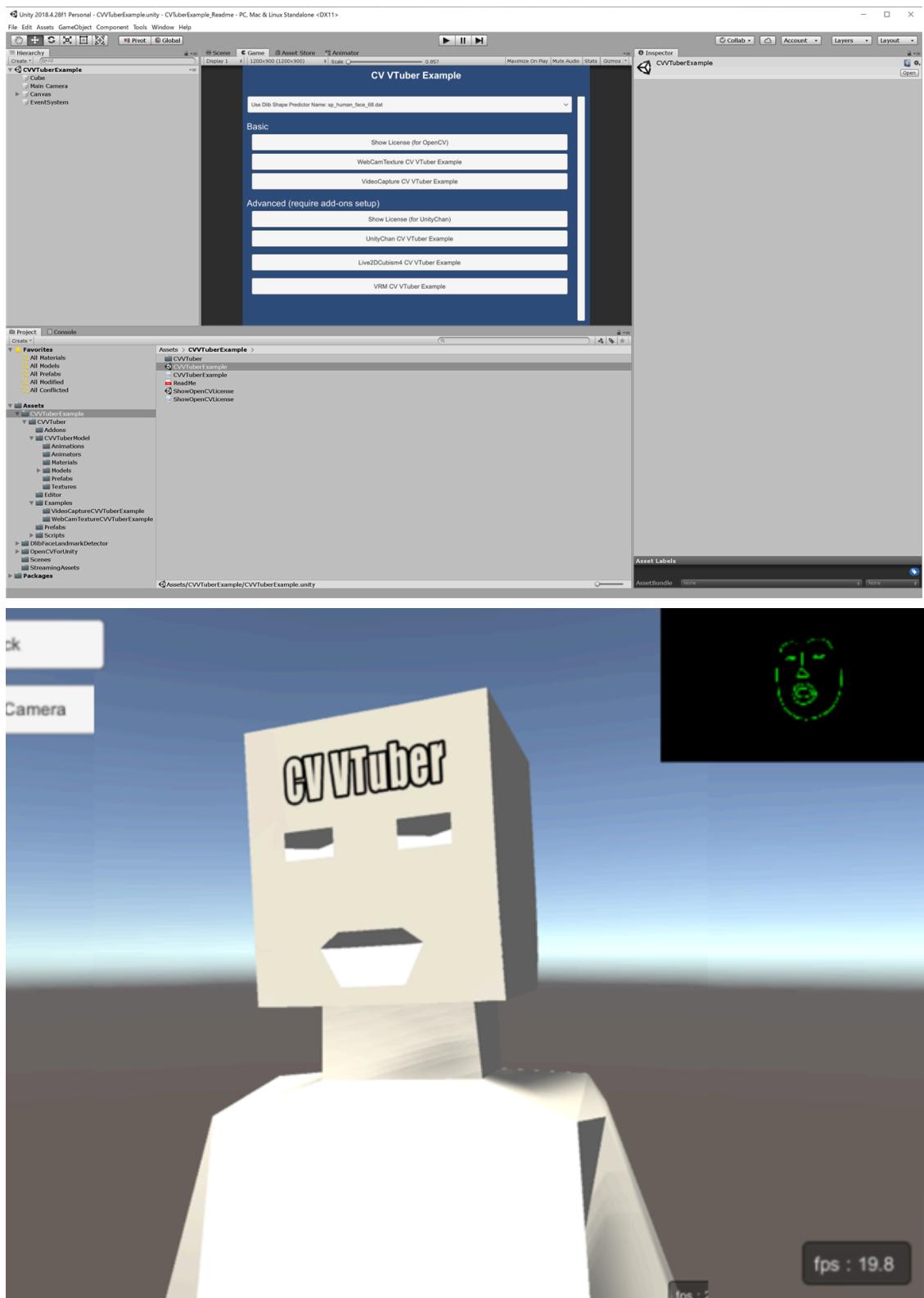
7. Click on CVVTuberAnimatorController to open the Animator window. Enable IK Pass flag of “Base Layer”.



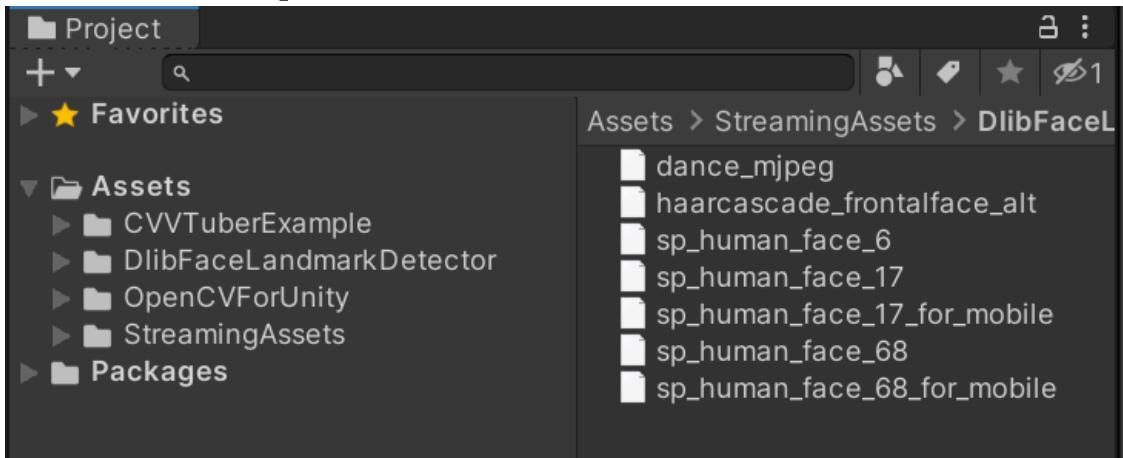
- Add all of the “***.unity” in the “CVVTuberExample/” folder to [Build Settings] – [Scene In Build].



9. Run the CVVTuberExample scene.



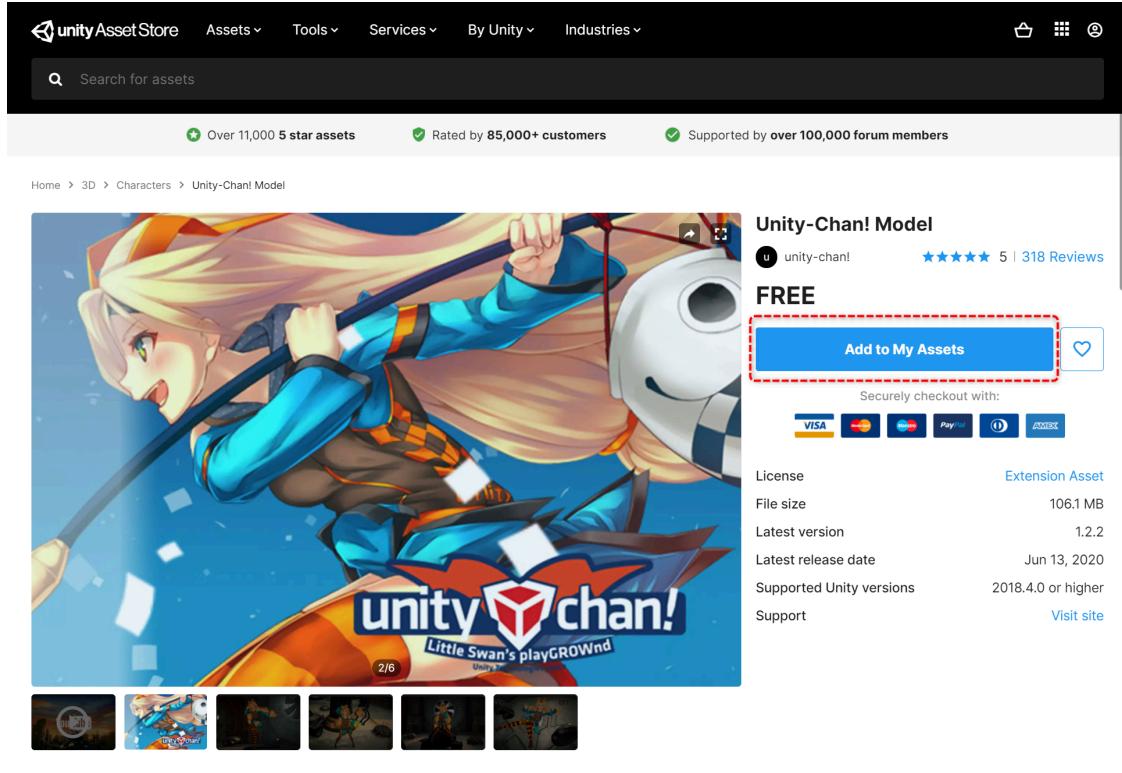
Screenshot after the setup



*In this example, a model set up with a general Mecanim Humanoid is also available.

Quick setup procedure to run the UnityChanCVVTuberExample scene:

1. Download “Unity-Chan! Model ver1.2.2” from [Unity's AssetStore](#).

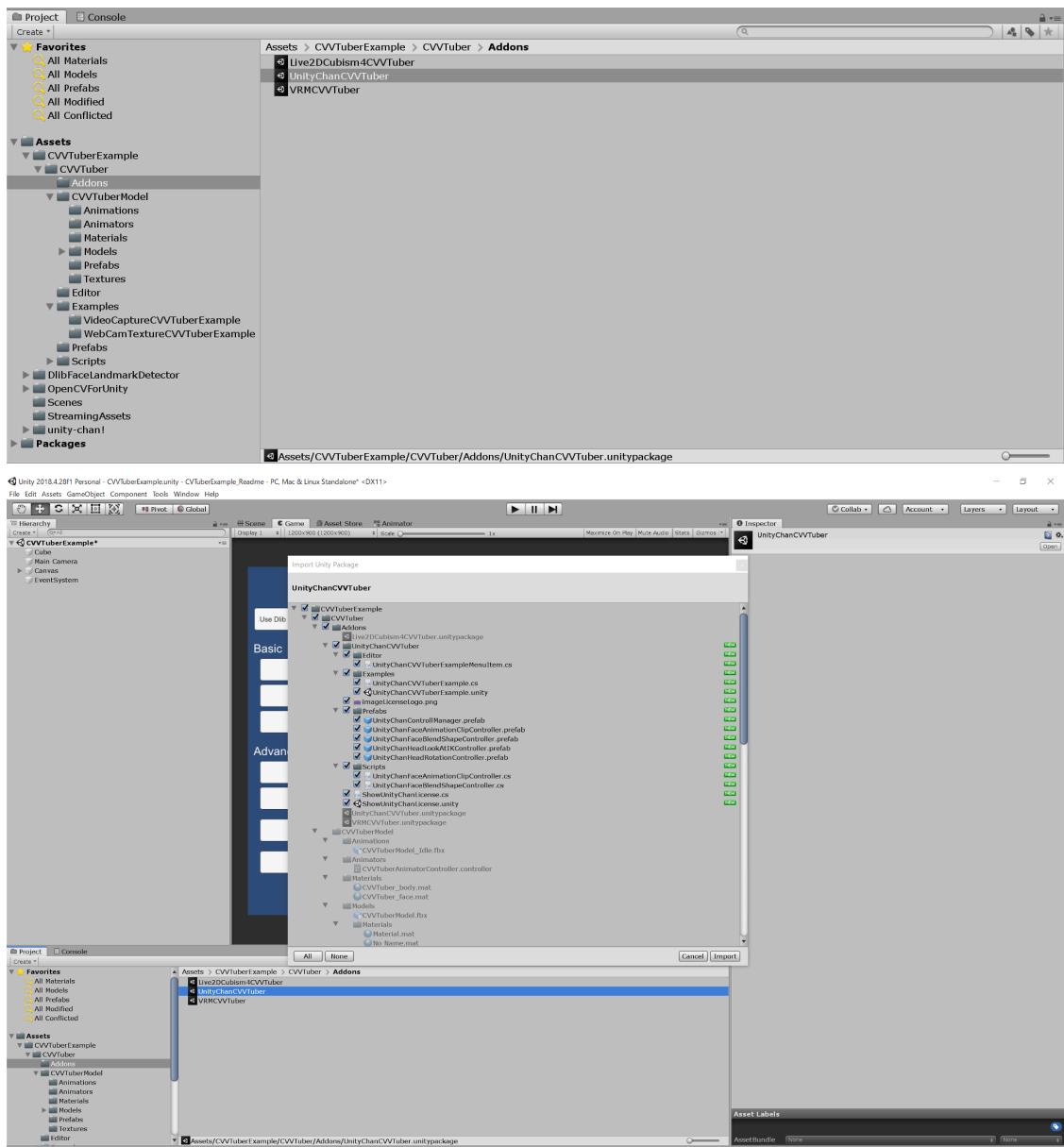


2. Import “Unity-Chan! Model”.

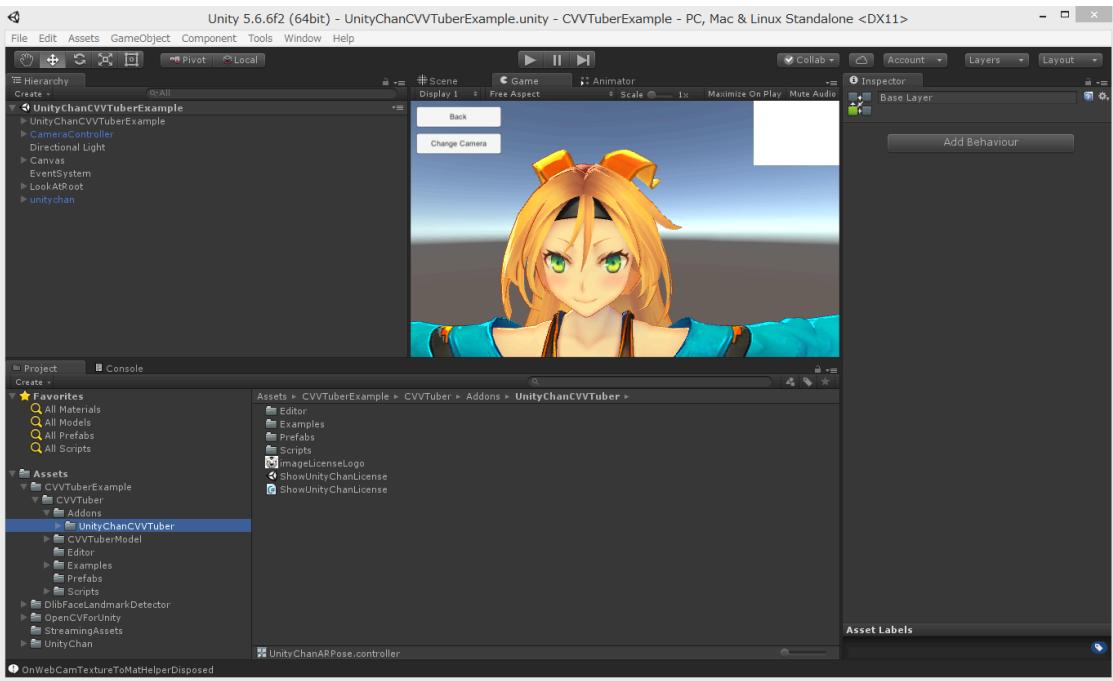


3. Import

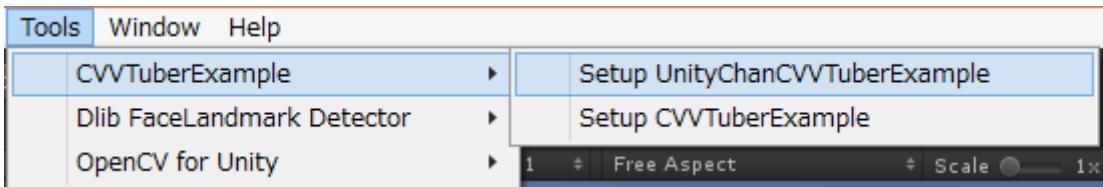
“Assets/CVVTuberExample/CVVTuber/Addons/UnityChanCVVTuber.unitypackage”.



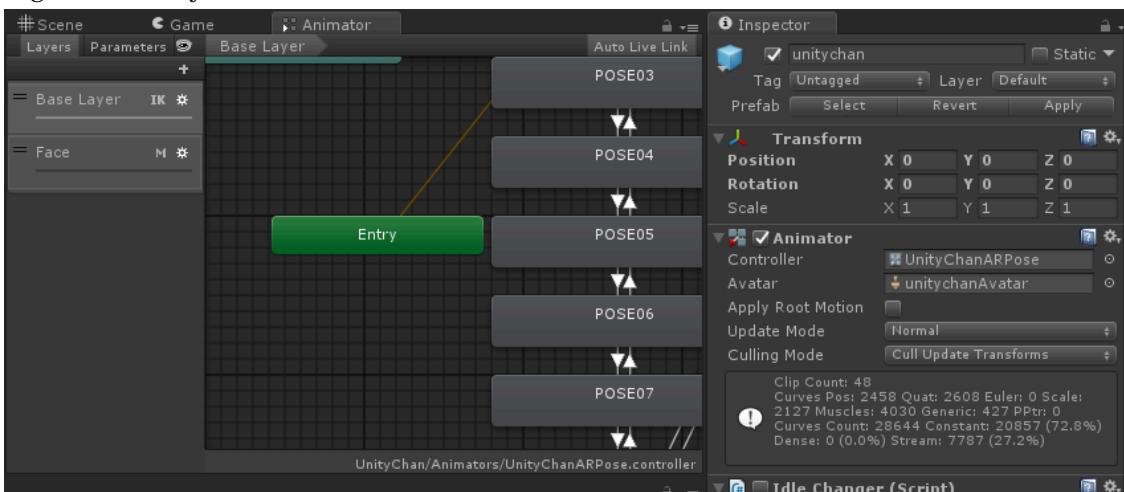
4. Open “Assets/CVVTuberExample/CVVTuber/Addons/UnityChanCVVTuber/UnityChanCVVTuberExample.unity” scene.

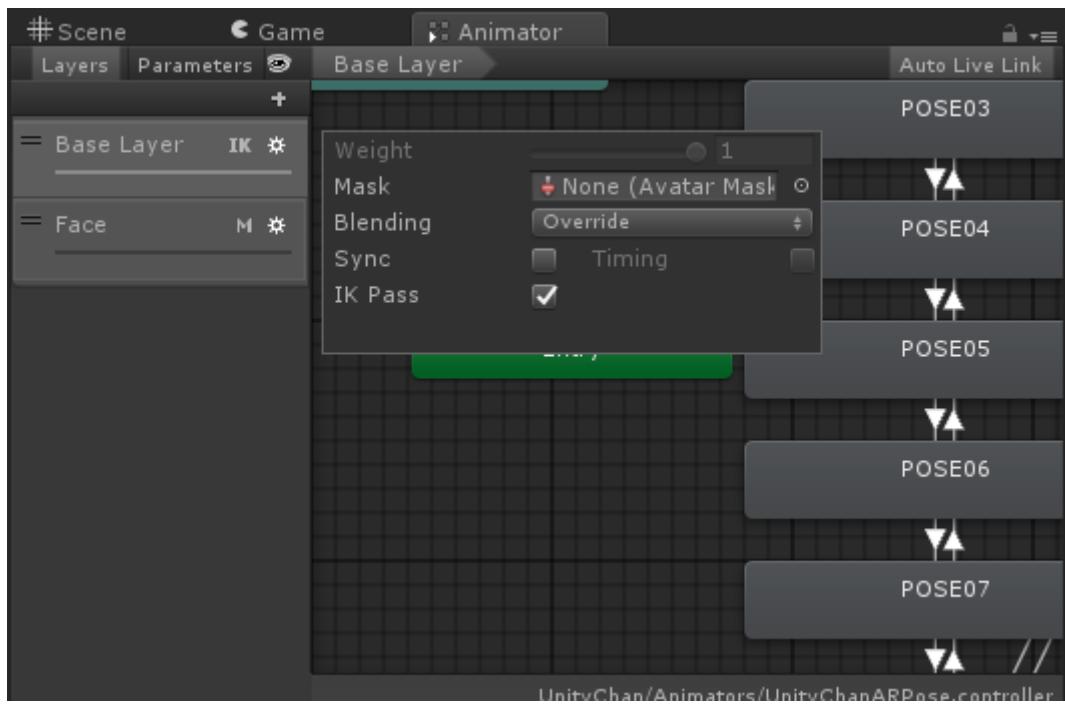


5. Select MenuItem[Tools/CVVTuberExample/ Setup UnityChanCVVTuberExample].



6. Click on CVVTuberAnimatorController to open the Animator window. Enable IK Pass flag of “Base Layer”.

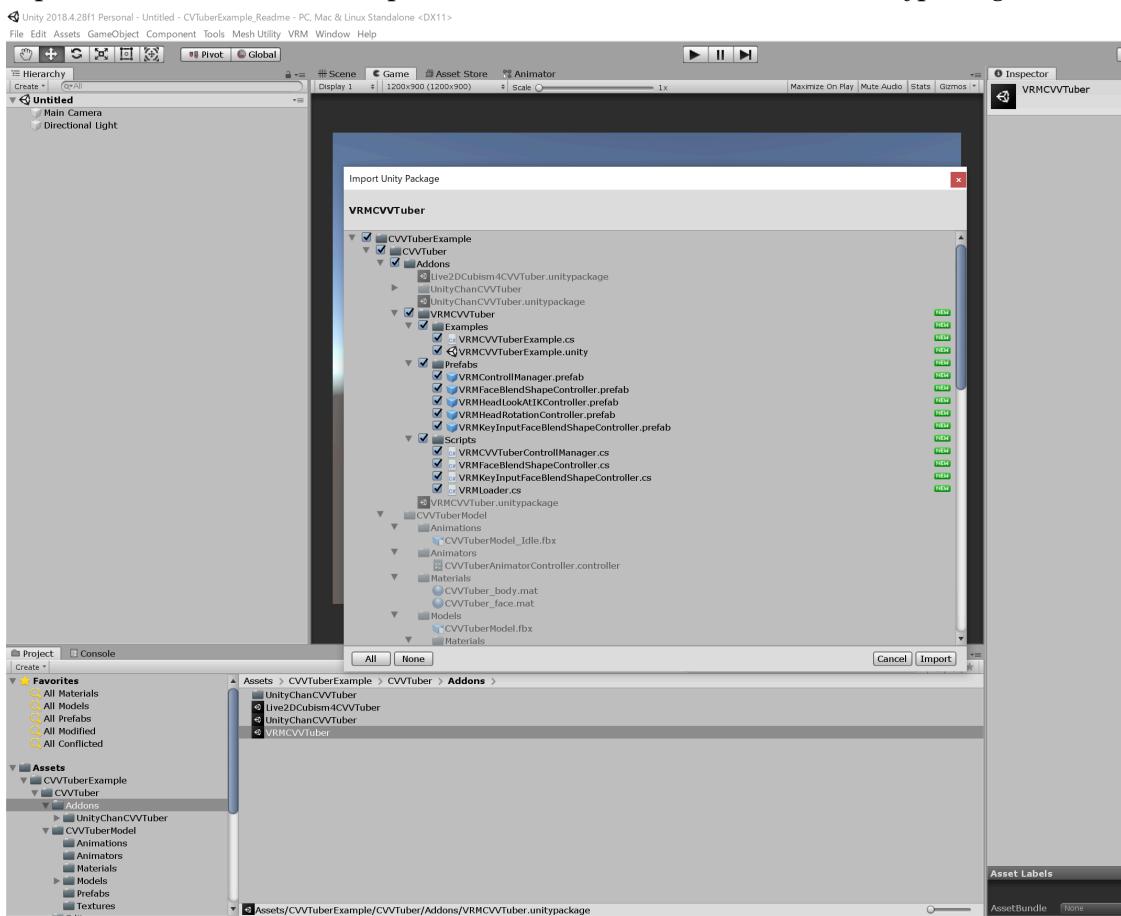




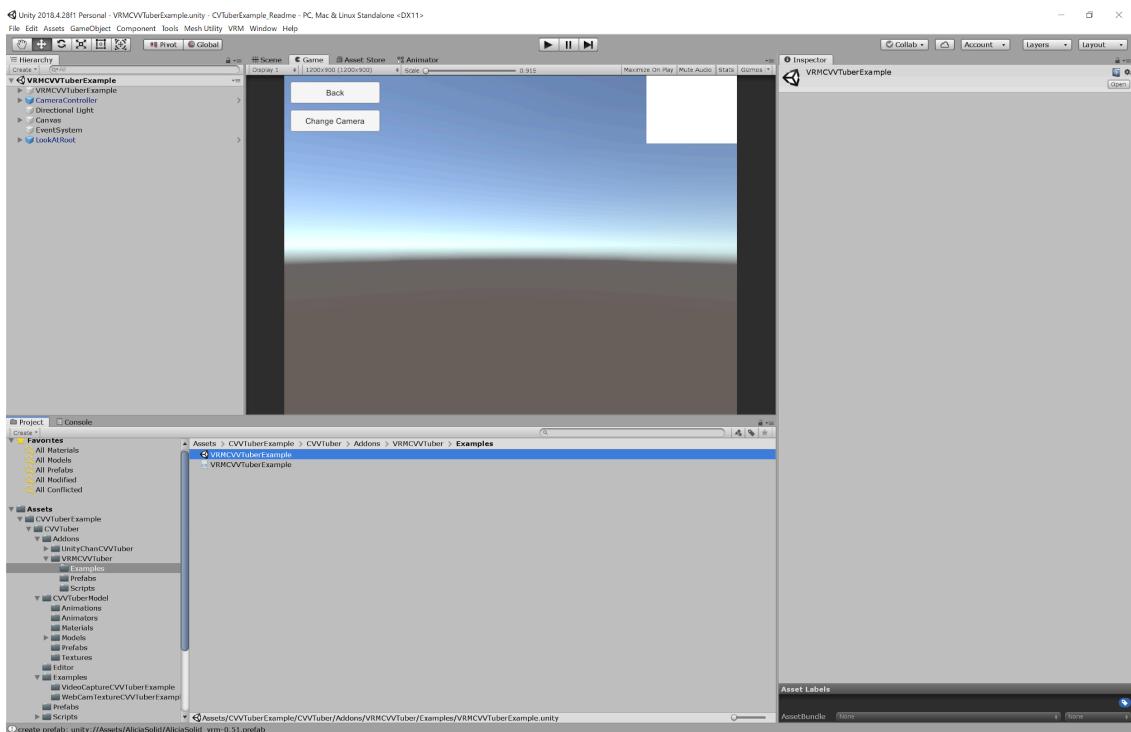
*In this example, a model set up with UnityChan format is also available.

Quick setup procedure to run the VRMCVVTuberExample scene:

1. Download UniVRM-0.124.1_e606.unitypackage from [GitHub vrm-c/UniVRM](#).
2. Import UniVRM-0.124.1_e606.unitypackage.
3. Import “Assets/CVVTuberExample/CVVTuber/Addons/VRMCVVTuber.unitypackage”.



4. Open “Assets/CVVTuberExample/CVVTuber/Addons/VRMCVVTuberExamples/VRMCVVTuberExample.unity” scene.



- Download "AliciaSolid_vrm-0.51.vrm" from [GitHub](#)
[vrm-c/UniVRM/Tests/Models/Alicia_vrm-0.51/](#).

vrm-c / UniVRM

Code Issues 38 Pull requests 3 Actions Projects 2 Wiki Security Insights

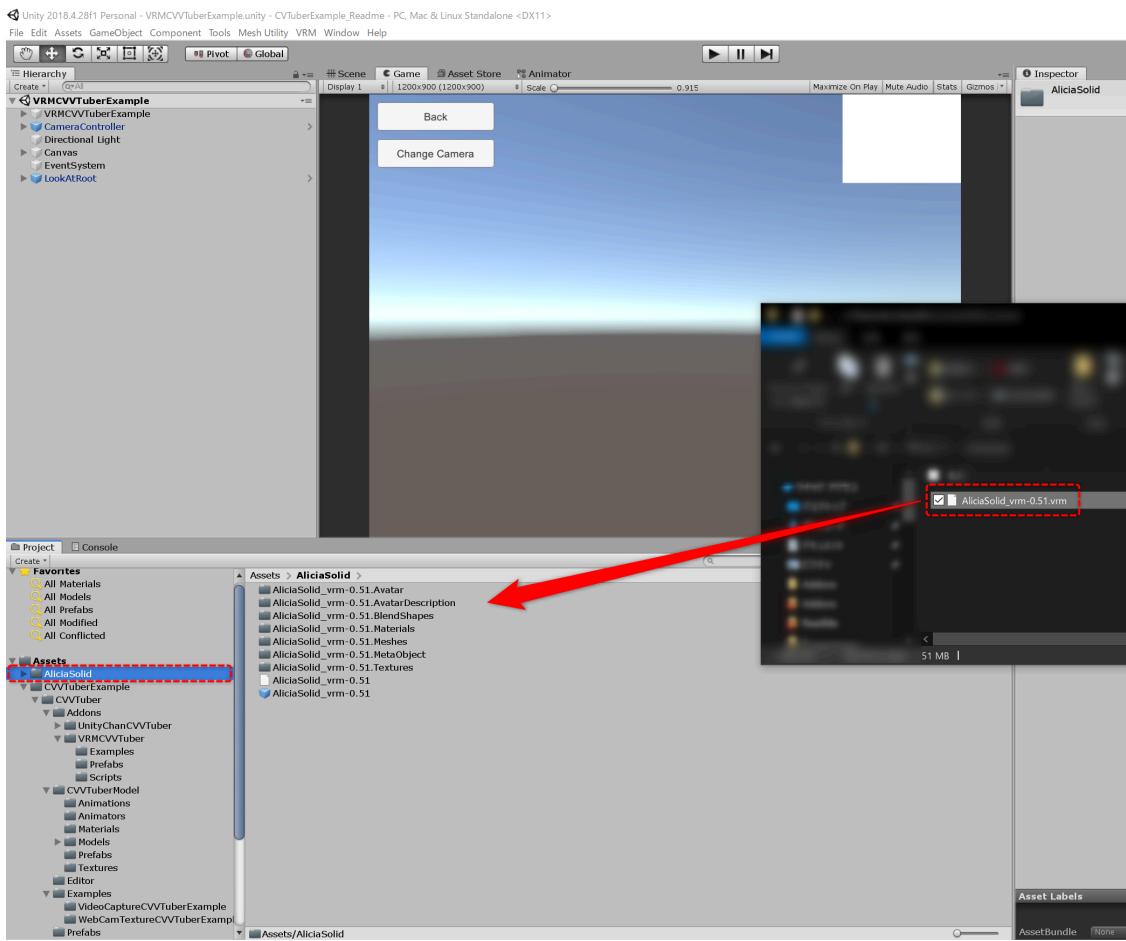
master [Go to file](#)

PoChang007 Update AliciaSolid to 0.51 b989972 on 4 Sep 2019 History

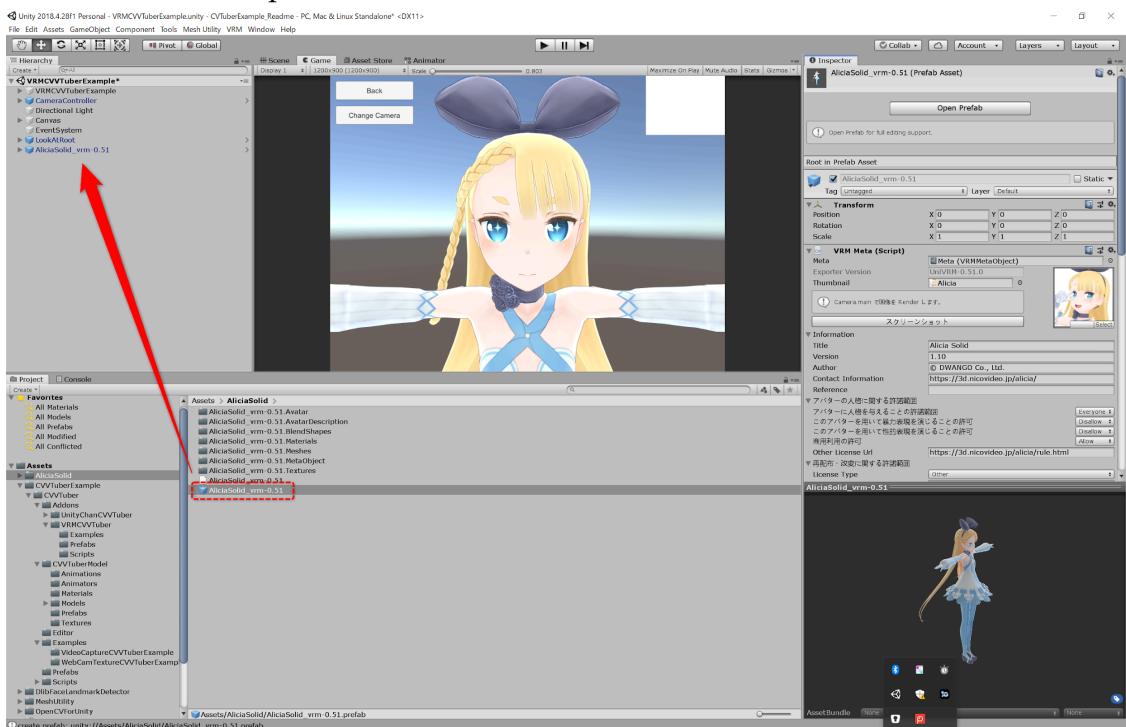
AliciaSolid_vrm-0.51.vrm Update AliciaSolid to 0.51 15 months ago

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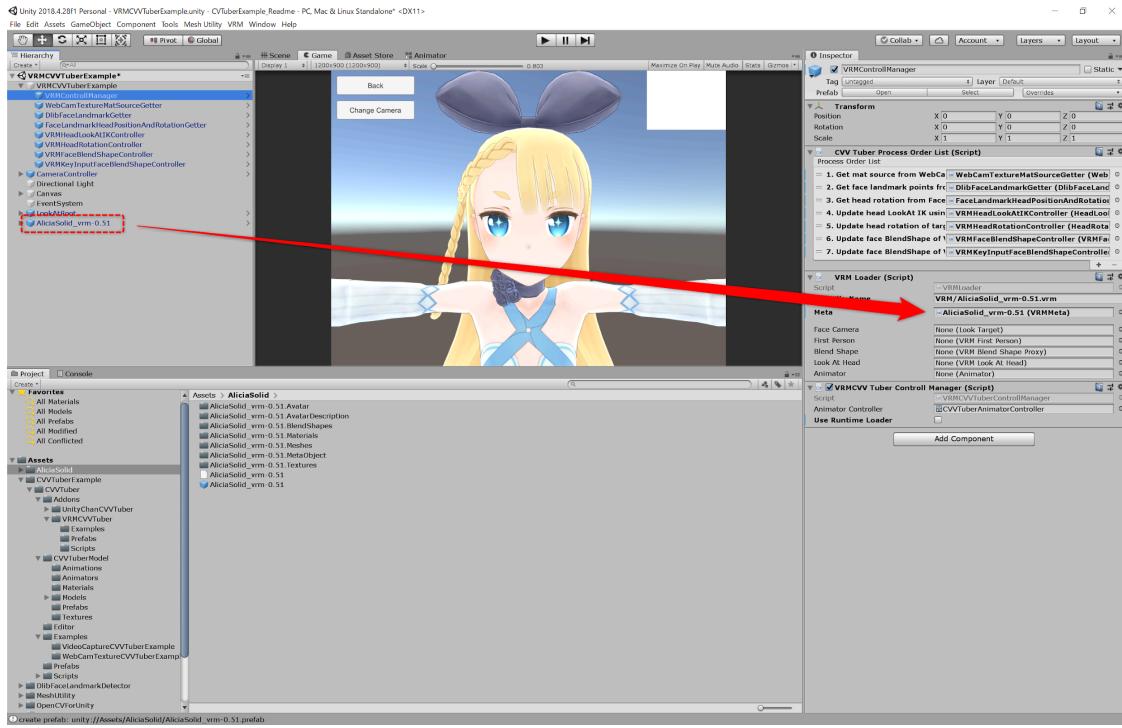
- Create an "AliciaSolid" folder in the "Assets" folder and place "AliciaSolid_vrm-0.51.vrm".



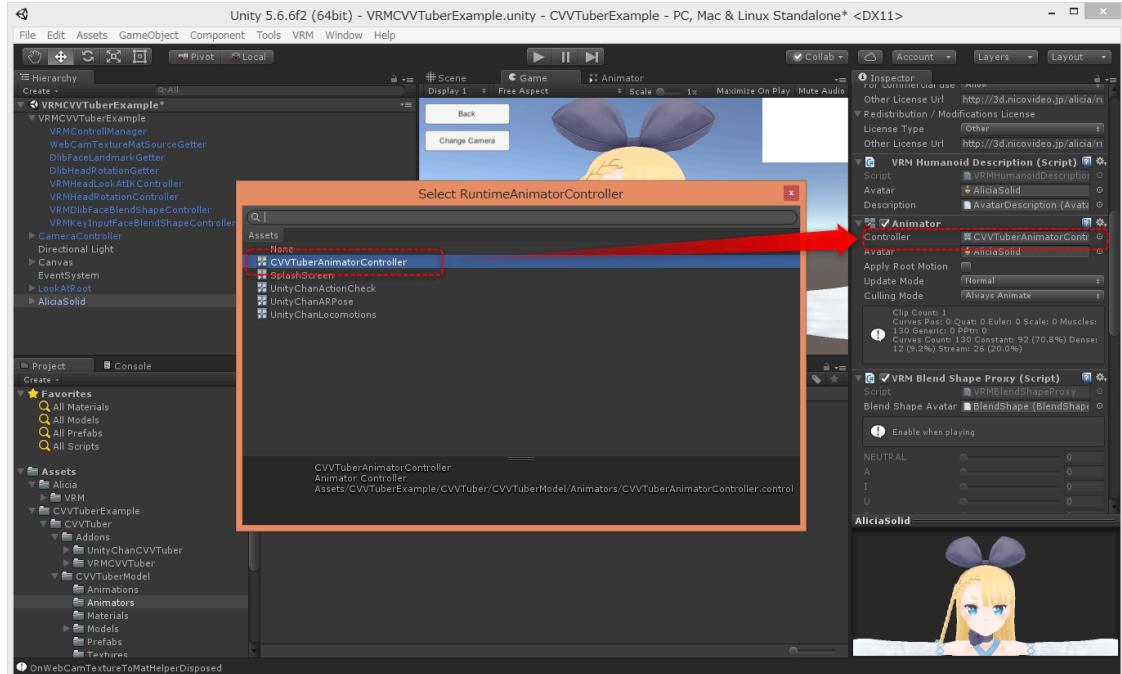
7. Drag and drop “Assets/AliciaSolid/AliciaSolid_vrm-0.51.prefab” into the “VRMCVVTuberExample” scene.



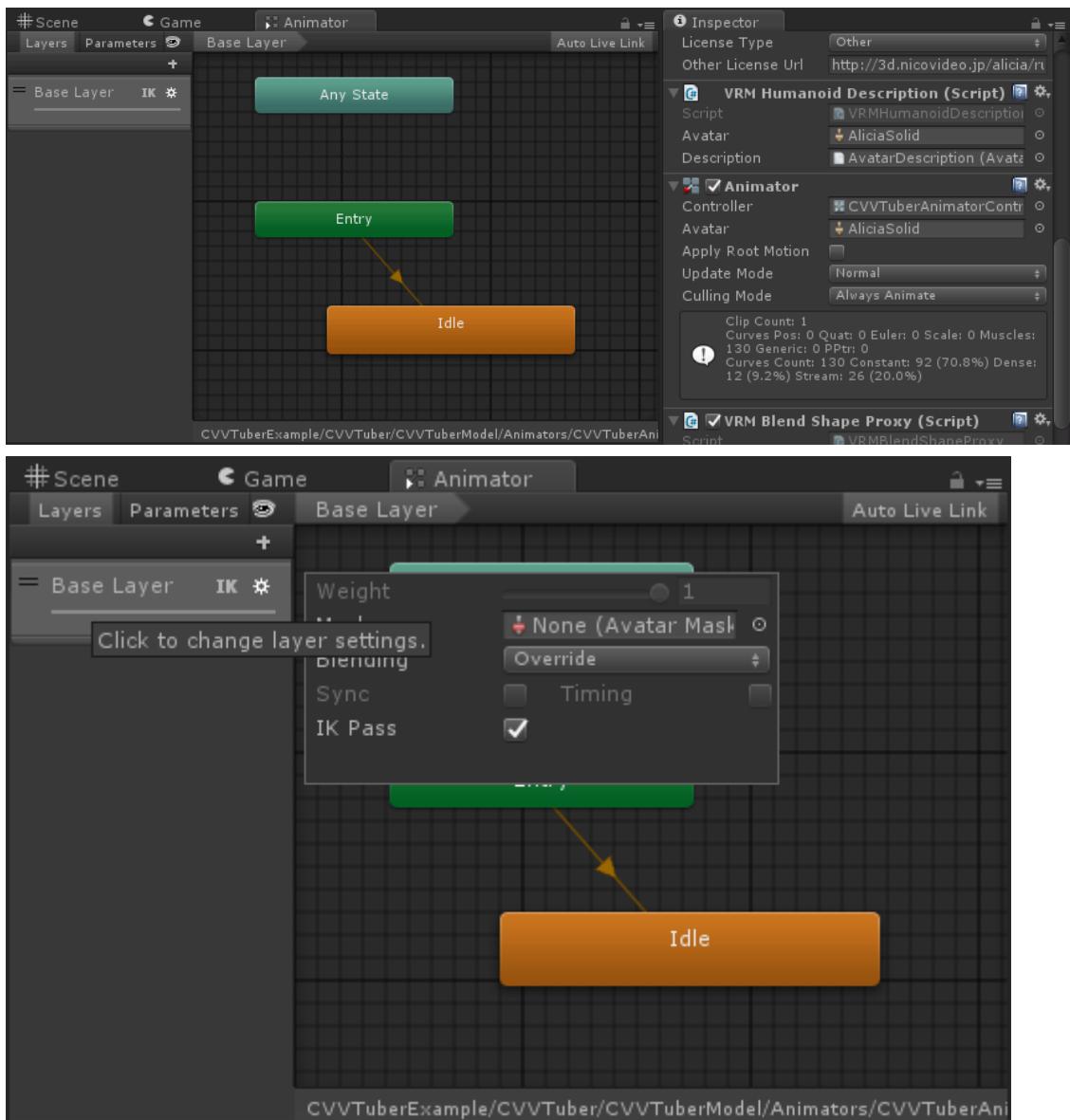
8. Set “AliciaSolid” to Meta of VRMLoader.



9. Set “CVVTuberAnimatorController” to Controller of AliciaSolid's Animator.



10. Click on CVVTuberAnimatorController to open the Animator window. Enable IK Pass flag of “Base Layer”.

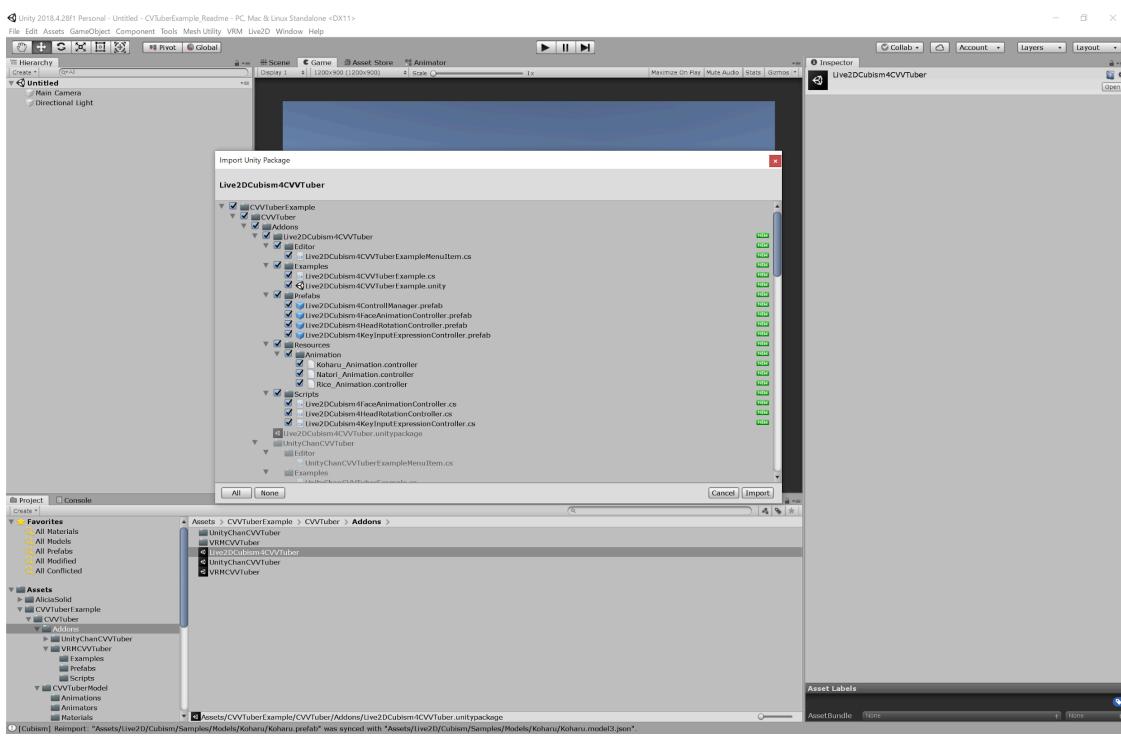


*In this example, a model set up with VRM format is also available.

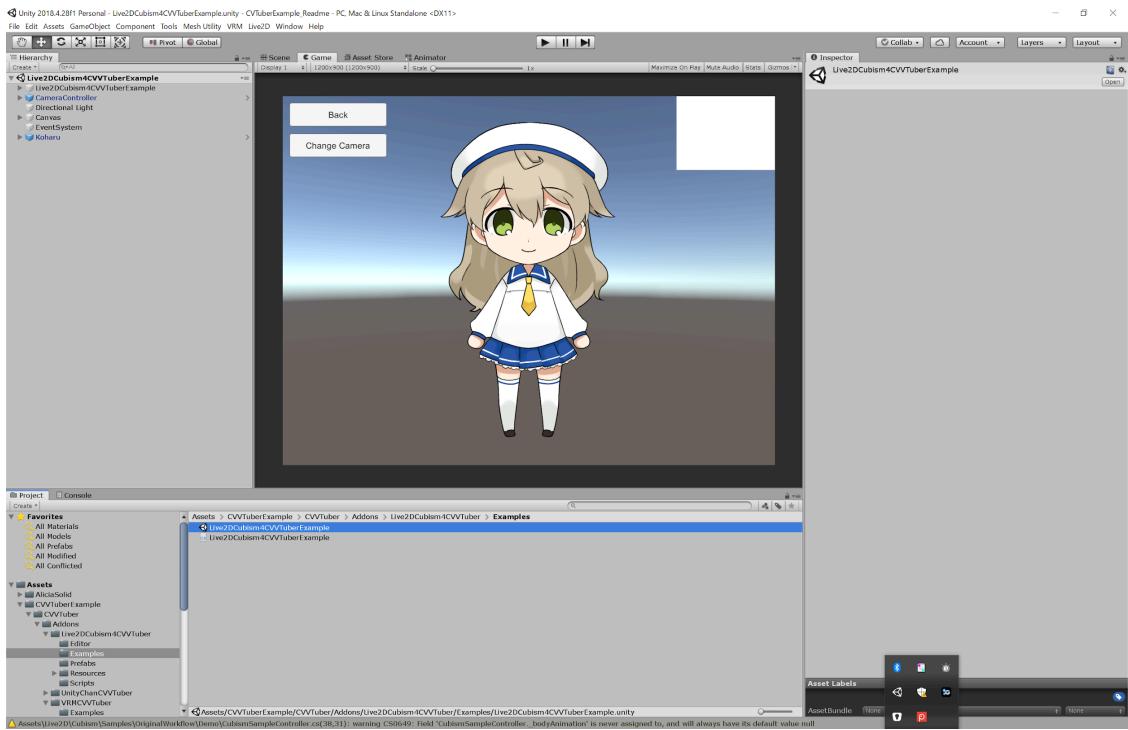
*“UniVRM-0.124.1_e606” is compatible with Unity 2021.3 LTS or later..

Quick setup procedure to run the Live2DCubism5CVVTuberExample scene:

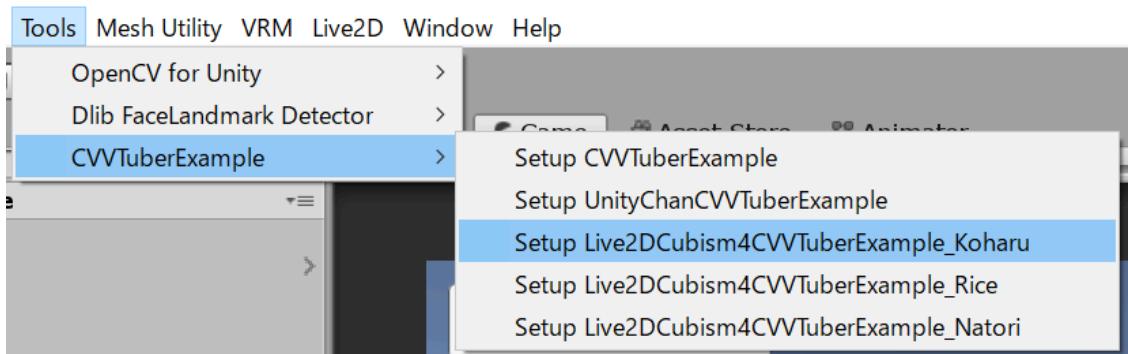
1. Download “CubismSdkForUnity-5-r.2.unitypackage” from [Live2D site](#).
2. Import CubismSdkForUnity-5-r.2.unitypackage.
3. Import
“Assets/CVVTuberExample/CVVTuber/Addons/Live2DCubism5CVVTuber.unitypackage”



4. Open
“Assets/CVVTuberExample/CVVTuber/Addons/Live2DCubism5CVVTuber/Live2DCubism5CVVTuberExample.unity” scene.



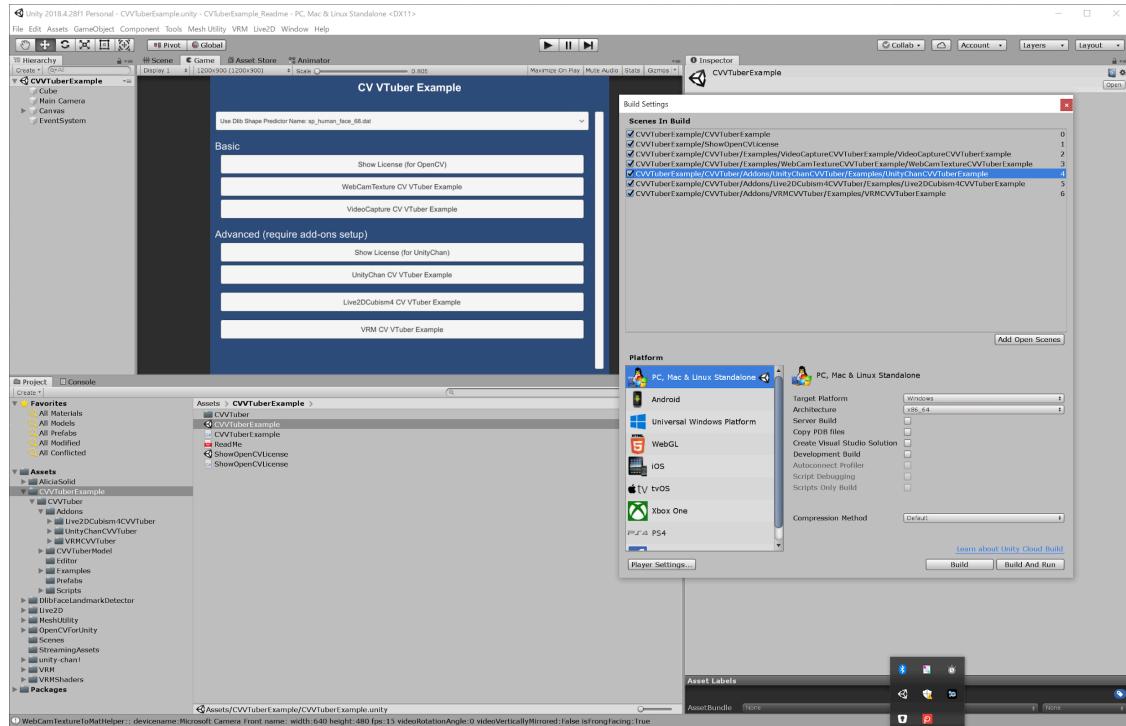
5. Select MenuItem[Tools/CVVTuberExample/ Setup Live2DCubism5CVVTuberExample_koharu].



*In this example, a model set up with Live2DCubism5 format is also available.

*“Cubism 5 SDK for Unity” is compatible with Unity version 2021 LTS or later.

Screenshot after the setup all addons



Q & A

Q1. HeadLookAtIkController does not work.

A1. Animator is not set to target of HeadLookAtIkController, or IK Pass of Base Layer of AnimatorController is not set to true.

Or AnimatorController is not set in the model's Animator.

Q2. HeadRotationController does not work.

A2. HeadRotationController target is not set. (Usually, set the Bone of the Head part)

Q3. The direction of rotation of HeadLookAtIkController or HeadRotationController is wrong.

A3. Please adjust invertAxis and rotateAxis settings.

* When creating and publishing an application using this asset, please check the licenses and terms of use of SDK or 3D model.