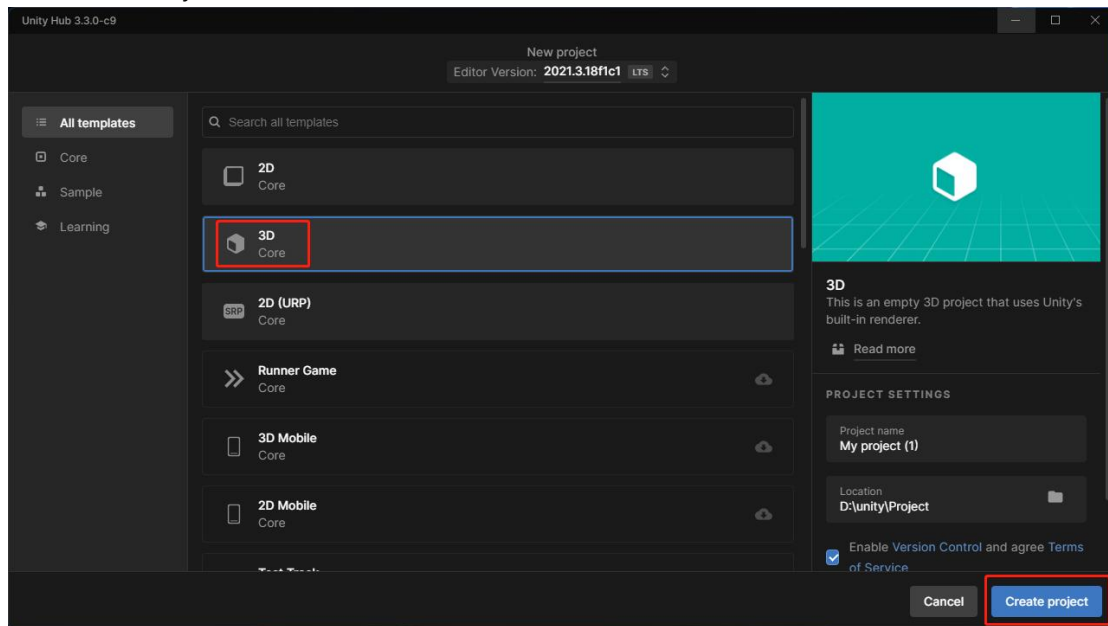


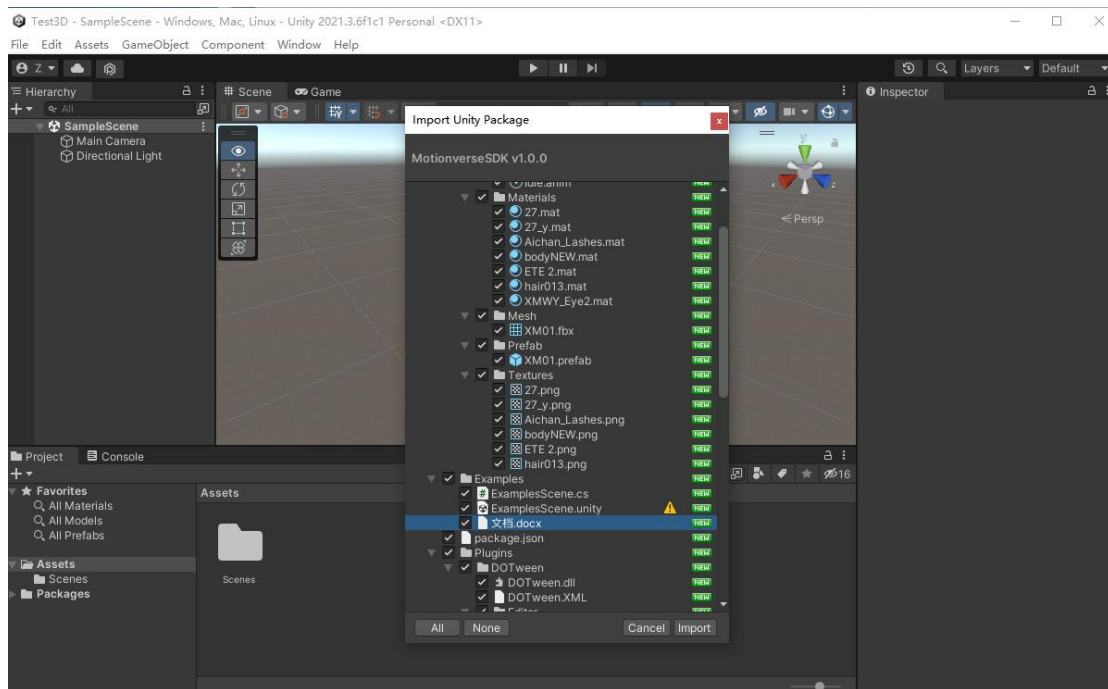
1、 Model Preparation and Standard Binding

- (1) A binding-ready FBX file for the model needs to be prepared.
- (2) For the body skeleton structure of the model, our plugin provides basic data redirection functionality, which can redirect the majority of humanoid skeletons.
- (3) For facial binding, we use the Apple ARKit standard of 52 blendshapes. If facial expressions and mouth movements are required, they need to adhere to this binding specification.

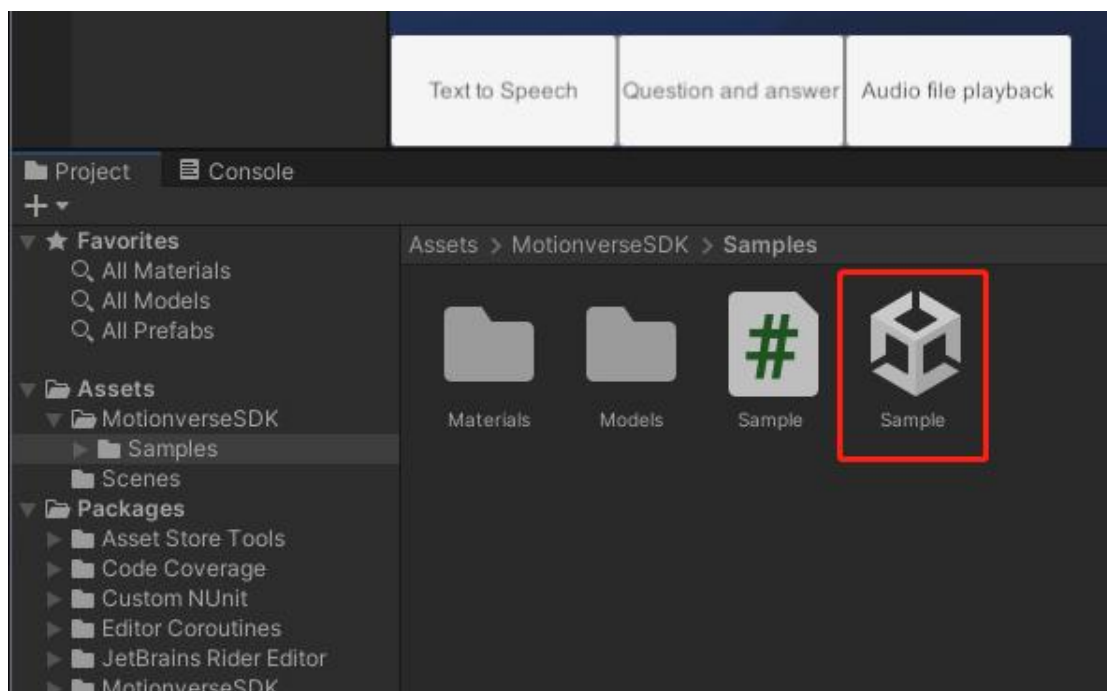
2、 Create a new Unity project by selecting the "3D Core Module" template. Once you've chosen the template, create the project and wait for a moment until the project is successfully created.



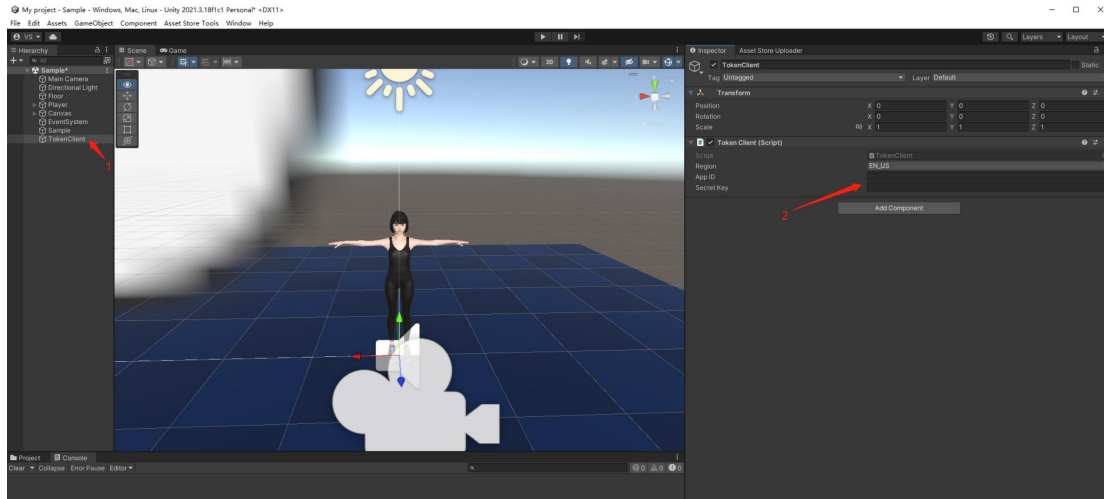
3、 After successfully creating the project, import the MotionverseSDK by clicking on "import".



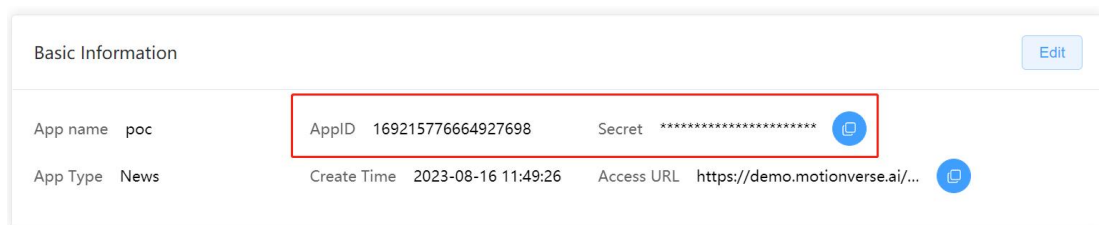
- 4、Click on Assets/MotionverseSDK/Samples scene to explore and utilize the samples provided.



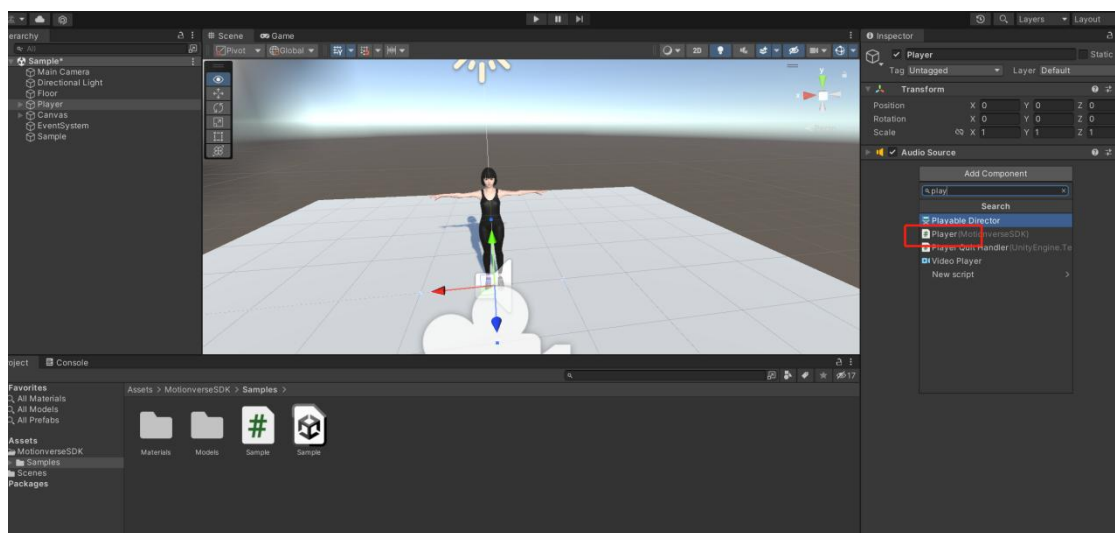
- 5、Select "TokenClient" and then set up the information in the Inspector. Choose the Region based on your location, and make sure your account registration address is consistent with the selected region. Then input the created App ID and Secret Key.



The App ID and Secret Key can be obtained after registering on usercenter.motionverse.ai and creating an application.



6、Move the character to the Player directory and add the Player component to the Player directory.



Configure the parameters for the Player component:

VoiceName: Set the TTS synthesis voice name. Detail

BodyMotion: Set the type of motion. Detail

FaceType: Set the facial expression driving type. 1 = Voice-driven, 2 = Visual-driven.

Phoneme-driven effects produce better results and more accurate lip synchronization.

Voicespeed: Set the speed of the synthesized voice. Default value is 50, range is 0-100.
 VoiceVolume: Set the volume of the synthesized voice. Default value is 50, range is 0-100.
 Voice FM: Set the pitch of the synthesized voice. Default value is 50, range is 0-100.
 Body Head X Rot: Control the tilting of the character's head during motion playback. Use a negative value for tilting, e.g., -10.

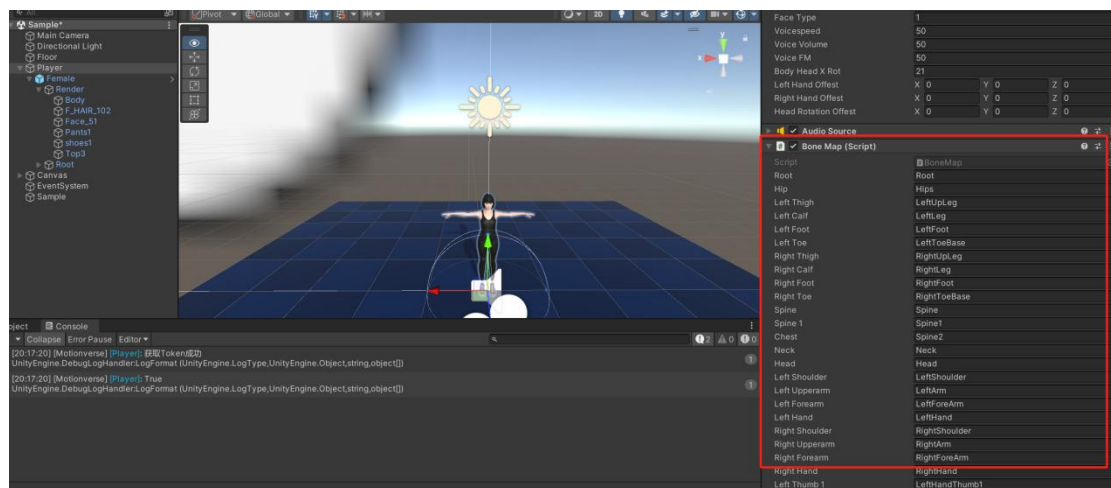
Left Hand Offset

Right Hand Offset

Head Rotation Offset

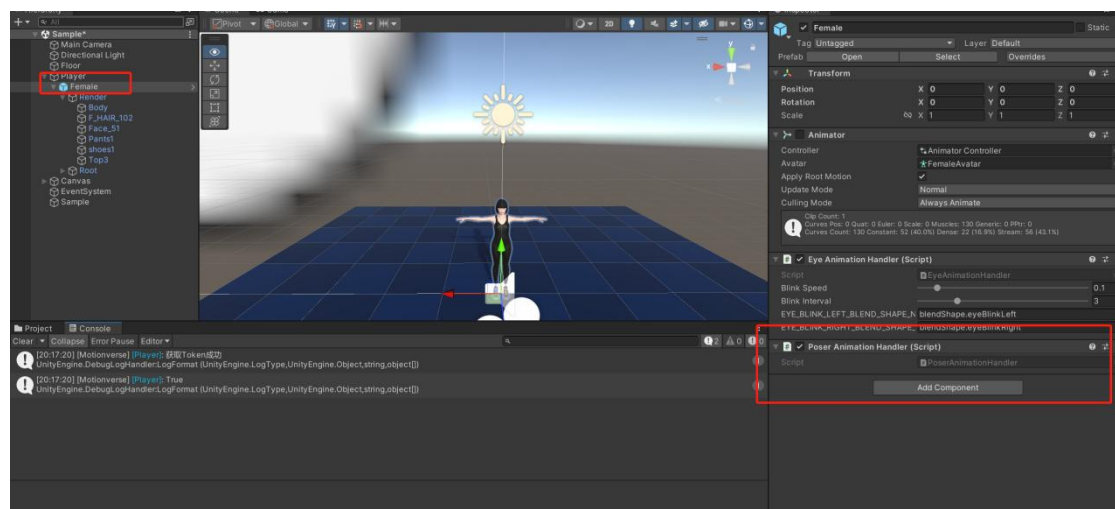
These three parameters are used for adjusting the position information of the head and hands during redirection.

- To configure redirection parameters, for models with redirection requirements, the mapping relationship of the model's skeleton needs to be configured.

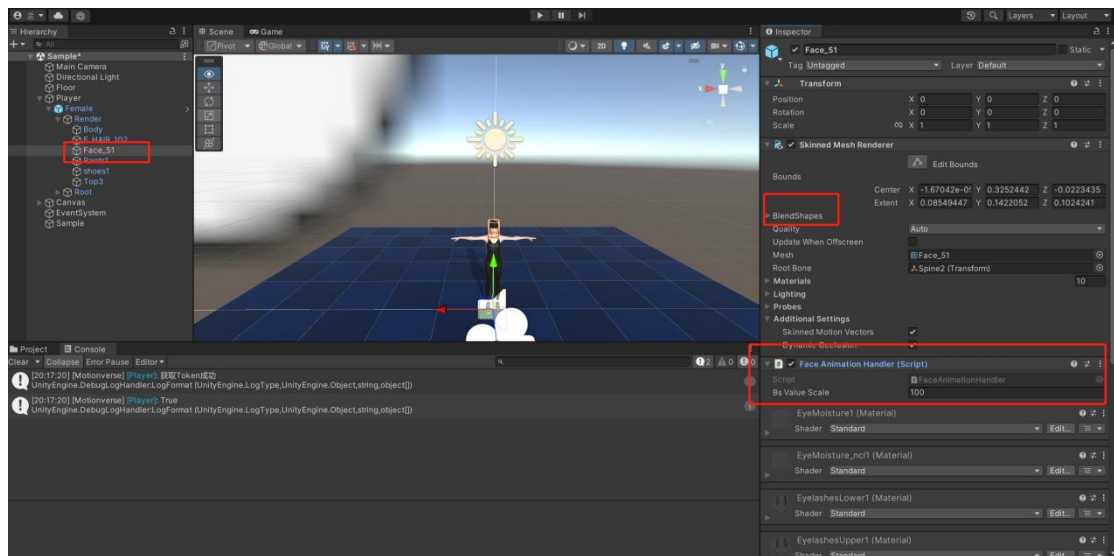


Once configured, the redirecting functionality will be automatically supported, allowing you to drive the digital character directly with data.

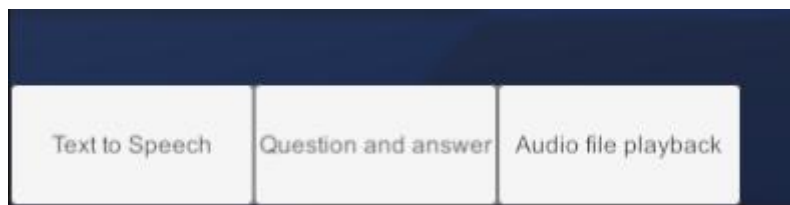
- Add a Poser Animation Handler to the model.



- In the part where facial blendshapes (BS) are present, add the Face Animation Handler.



- 10、Click on the corresponding button to start debugging the digital character drive. Note:
If the Region selected is EN_US, the Question and Answer feature will not be available.



- 11、After familiarizing yourself with the digital character plugin, developers can start developing digital character applications according to their own needs!
You can refer to Sample.cs.

```

using UnityEngine;

namespace MotionverseSDK {
    public class Sample : MonoBehaviour
    {
        public void OnTextDrive(string text)
        {
            TextDrive.GetDrive(text);
        }

        public void OnAudioUrlDrive(string url)
        {
            AudioUrlDrive.GetDrive(url);
        }

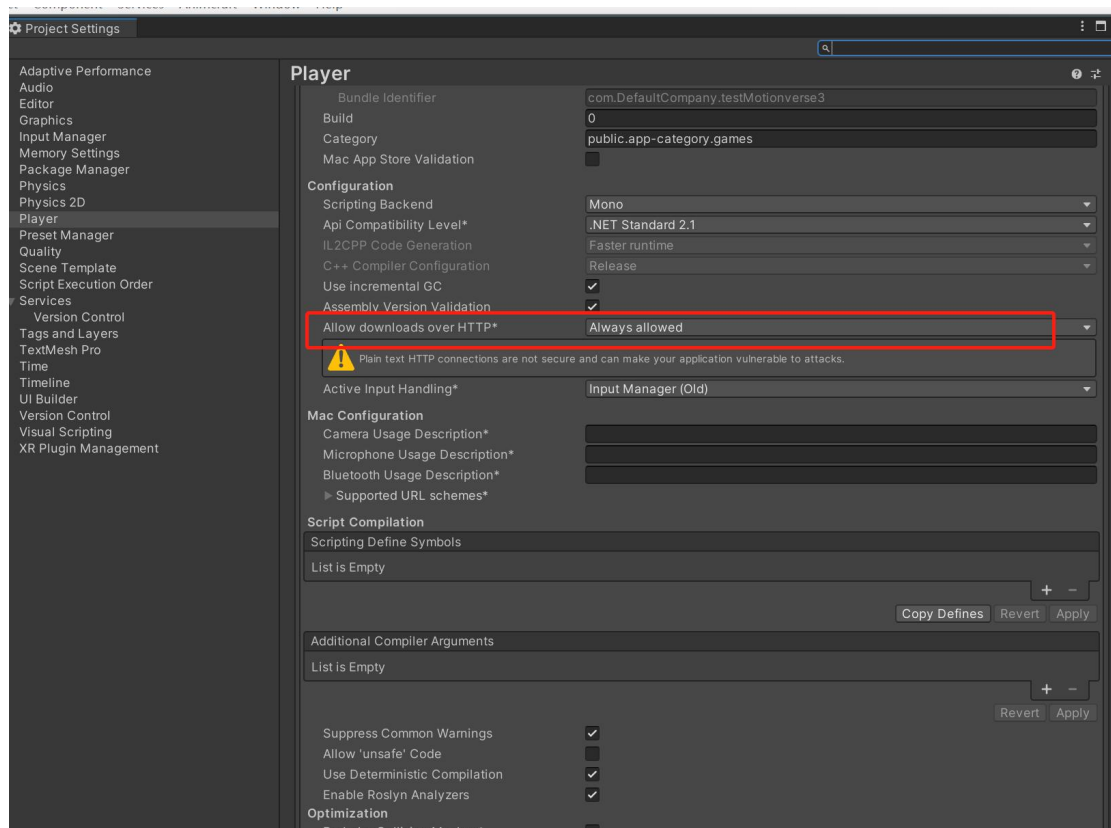
        public void OnNLPDrive(string text)
        {
            NLPDrive.GetDrive(text);
        }
    }
}

```

TextDrive: Input text and the synthesized voice, actions, and expressions will be returned to drive the digital avatar.

AudioUrlDrive: Input the URL of an audio file, and actions and expressions will be returned to drive the digital avatar.

12、 For Unity 2022 version, you need to allow HTTP downloads in the Player Settings.



TTS voice list:

en-US-JennyMultilingualNeural

en-US-JennyNeural

en-US-GuyNeural

en-US-AriaNeural

en-US-DavisNeural

en-US-AmberNeural

en-US-AnaNeural

en-US-AshleyNeural

en-US-BrandonNeural

en-US-ChristopherNeural

en-US-CoraNeural

en-US-ElizabethNeural

en-US-EricNeural

en-US-JacobNeural

en-US-JaneNeural

en-US-JasonNeural
en-US-JennyMultilingualV2Neural
en-US-MichelleNeural
en-US-MonicaNeural
en-US-NancyNeural
en-US-RogerNeural
en-US-RyanMultilingualNeural
en-US-Saraen-US-AIGenerate1Neural
en-US-SteffanNeural
en-US-Tonyen-US-Saraen-US-AIGenerate1Neural
en-US-AIGenerate1Neural
en-US-AIGenerate2Neural
en-US-BlueNeural

zh-CN-XiaoxiaoNeural
zh-CN-YunxiNeural
zh-CN-YunjianNeural
zh-CN-XiaoyiNeural
zh-CN-YunyangNeural
zh-CN-XiaochenNeural
zh-CN-XiaohanNeural
zh-CN-XiaomengNeural
zh-CN-XiaomoNeural
zh-CN-XiaoqiuNeural
zh-CN-XiaoruiNeural
zh-CN-XiaoshuangNeural
zh-CN-XiaoxuanNeural
zh-CN-XiaoyanNeural
zh-CN-XiaoyouNeural
zh-CN-XiaozhenNeural
zh-CN-YunfengNeural
zh-CN-YunhaoNeural
zh-CN-YunxiaNeural
zh-CN-YunyeNeural
zh-CN-YunzeNeural