

## **AI Avatar Overview**

Al avatar is a digital character, powered by Al, human-like and lives in a virtual settings, such as game, app or online world.

Microsoft Mesh Avatar

3D Meta human
(TTS avatar)

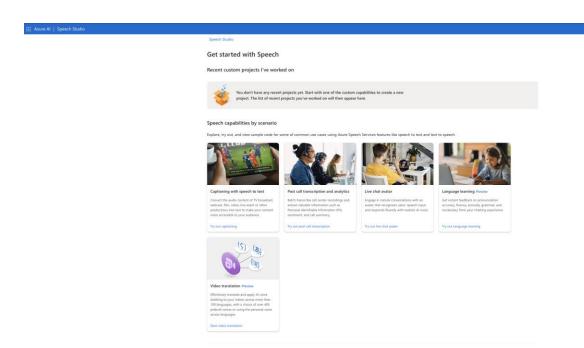
artificial

realistic

- · Not realistic cartoon avatar
- Photo level 3D cartoon avatar
- Requires extensive initial artist work
- Outcome remains to be noticeably artificial during movement
- Realistic as real person, provide more trustable experience
- Model building requires actor speaking video recording data

https://speech.microsoft.com

# Azure Speech Studio



## TTS Avatar

Speech Studio

#### Text to speech

Build apps and services that speak naturally with more than 400 voices across 140 languages and dialects. Create a customized voice to differentiate your brand and use various speaking styles to bring a sense of emotion to your spoken content. Learn more about text to speech



#### Voice Gallery

Browse expressive voices with humanlike speech to find the perfect speaker for your project.

Try out Voice Gallery



#### **Custom Voice**

Use your own audio recordings to create a distinct, one-of-a-kind voice for your text to speech apps.

Start a Custom Voice project



#### Personal Voice

Create an AI voice easily from a human voice sample, providing your users with a personalized voice experience across 100 languages.

Try out Personal Voice



#### Audio Content Creation

Craft nuanced speech by adjusting the speaking style, pacing, and pronunciation of your spoken content.

Start an Audio Content Creation project



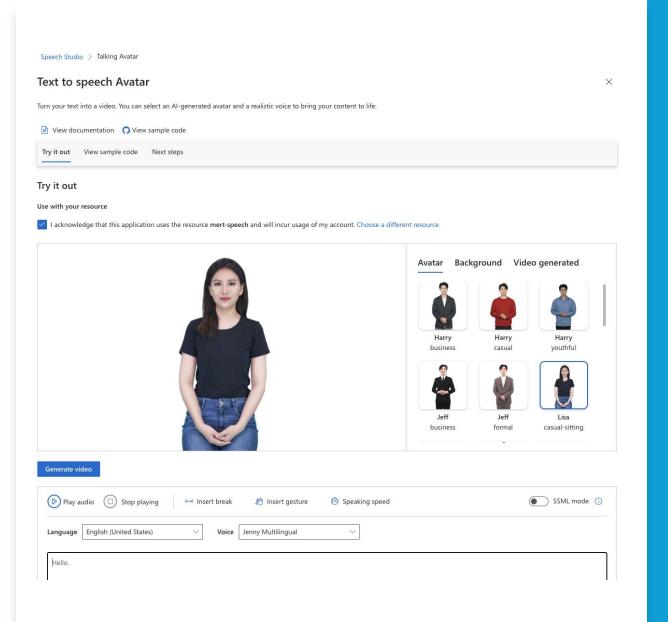
### Text to speech Avatar

Bring text to life with natural-sounding voices and photorealistic talking avatars, creating a more engaging and delightful communication experience.

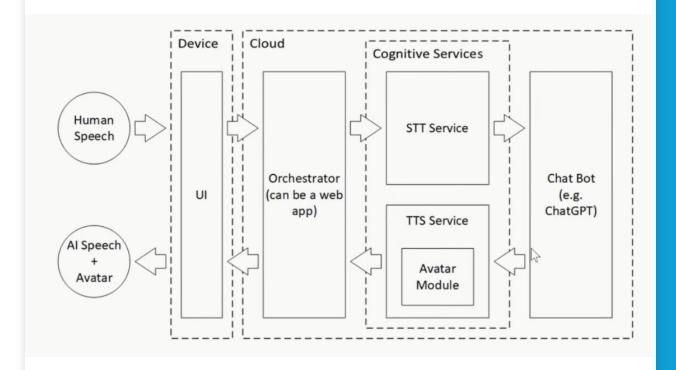
Try out Text-to-speech Avatar

#devnotsummit24

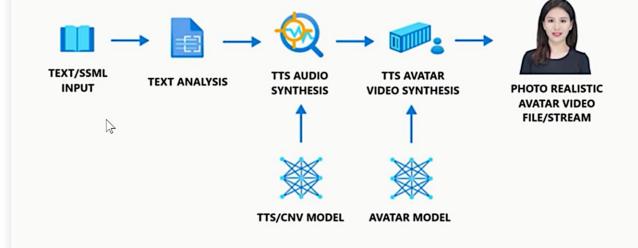
## TTS Avatar



# Reference Architecture



# Avatar Creation Workflow



```
mirror_object
peration == "MIRROR_X":
irror_mod.use_x = True
mirror_mod.use_y = False
mirror_mod.use_z = False
 _operation == "MIRROR_Y"
lrror_mod.use_x = False
 irror_mod.use_y = True
 lrror_mod.use_z = False
  _operation == "MIRROR_Z";
  rror_mod.use_x = False
  lrror_mod.use_y = False
 lrror_mod.use_z = True
 election at the end -add
  ob.select= 1
  er ob.select=1
   ntext.scene.objects.action
  "Selected" + str(modifie
  irror_ob.select = 0
 bpy.context.selected_obj
  mata.objects[one.name].se
  int("please select exaction
  -- OPERATOR CLASSES ----
```

## Demo

y mirror to the selection

## Home > mert-rg > mert-speech mert-speech | Keys and Endpoint \* Speech service C Regenerate Key1 C Regenerate Key2 Search Overview Activity log These keys are used to access your Azure Al services API. Do not share your keys. Store them securely- for example, using Azure Key Vault. We also recommend regenerating these keys regularly. Only one key is necessary Access control (IAM) to make an API call. When regenerating the first key, you can use the second key for continued access to the service. Tags Diagnose and solve problems Show Keys Resource Management KEY 1 **Keys and Endpoint** 0 Encryption KEY 2 Commitment tier pricing 0 Pricing tier Location/Region ① Networking D ......... Identity **Endpoint** Cost analysis Properties











## Overview

- **Activity log**
- Access control (IAM)
- Tags
- Diagnose and solve problems
- Resource Management
- Security
- Monitoring
- **Automation**
- Help

## Essentials

Resource group (move): mert-rg

: Active **Status** 

Location : West Europe

Subscription (move) : Microsoft Azure Sponsorship

Subscription ID

Tags (edit) : Add tags

**Get Started** Monitoring

## **Get started with your resource in Speech Studio**



Try out all use cases and see other custom tools for building Speech AI models

Go to Speech Studio

## Speech Studio

## Text to speech

Build apps and services that speak naturally with more than 400 voices across 140 languages and dialects. Create a customized voice to differentiate your brand and use various speaking bring a sense of emotion to your spoken content. Learn more about text to speech



## Voice Gallery

Browse expressive voices with humanlike speech to find the perfect speaker for your project.

Try out Voice Gallery



### **Custom Voice**

Use your own audio recordings to create a distinct, one-of-a-kind voice for your text to speech apps.

Start a Custom Voice project



### **Personal Voice**

Create an AI voice easily from a human voice sample, providing your users with a personalized voice experience across 100 languages.

Try out Personal Voice



## **Audio Content Creation**

Craft nuanced speech by adjusting the speaking style, pacing, and pronunciation of your spoken content.

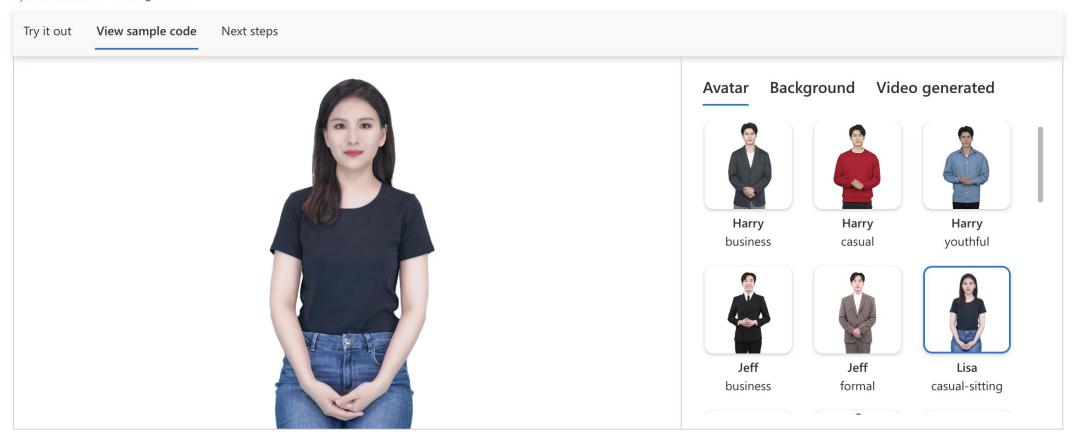
Start an Audio Content Creation project



## Text to speech Avatar

Bring text to life with natural-sounding voices and photorealistic talking avatars, creating a more engaging and delightful communication experience.

Try out Text-to-speech Avatar



## Generate video





The image and voice in this video is generated by AI, not recorded by real person.



## Shop Easily With Talking Avatar

Here are some things Talking Avatar can help you with:

What is the warrenty for women's hiking boots?

Do you have a tent for two people?

Recommend boy's shoes for hiking.

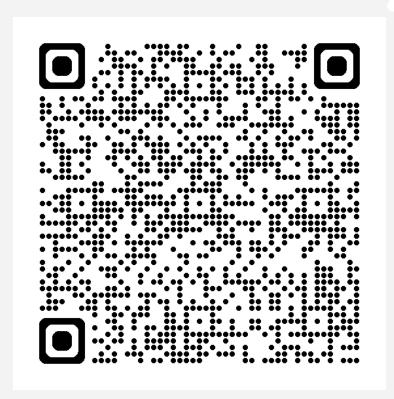




Press the mic to start talking

Hello, my name is Lisa. How can I help you?

## Custom Neural Voice and Custom Avatar Limited Access Review





# Azure AI Custom Neural Voice and Custom Avatar Limited Access Review

After you submit this registration form, we will review your application and respond in 1-2 business days. Some applications may take longer for a final decision.

\* Required

### Please read all instructions carefully and complete form as instructed

Please submit this form to register for Limited Access features of Azure Al text to speech custom neural voice (including custom neural voice pro and personal voice) and custom text to speech avatar. The purpose of this form is for Microsoft to understand how you're planning to use one or more of these features, and to determine if you are eligible for access, subject to the applicable terms and conditions. All use cases must be registered. You do not need to submit this form to use text to speech prebuilt neural voices or prebuilt avatars.

Custom neural voice (including custom neural voice pro and personal voice) and custom text to speech avatar are available only to Microsoft managed customers and partners. Access is subject to Microsoft's sole discretion based on Microsoft's eligibility and use criteria, and customers must acknowledge the applicable license terms for the service. Microsoft may require customers to re-verify this information. To learn more about customer eligibility and the Limited Access services, see the documentation here.

Please be sure to review and follow the requirements in the <u>Responsible Al Transparency Note for Azure Al text to</u>
<u>speech</u> to learn more about the guidelines for responsible use of the service as well as system limitations that may apply to your scenario.

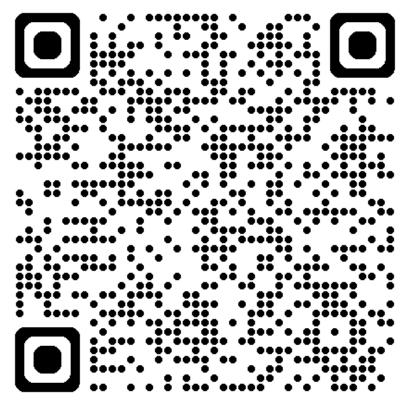
Note: building a custom neural voice or a custom text to speech avatar is not free. Please see our pricing here.

Please add <a href="maccount@microsoft.com">maccount@microsoft.com</a> and <a href="maccount@microsoft.com">csgate@microsoft.com</a> to your Safe Senders list to ensure you receive all correspondence pertaining to your application, including the verification email from Microsoft Vetting Service. For questions about the application process, please contact our team at <a href="maccountcooper-center-cooper-c

1. First Name \*

Enter your answer

## Azure-Samples (GitHub)



**Examples to use Batch Avatar Synthesis** 



Instructions to run Microsoft Azure TTS Talking Avatar sample code