**Text to Speech API Usage**

**Step 1:**

**Get Access Token**

Use below endpoint and POST request through postman to get access token and in the response access token will be received.

End Point : <https://eastus.api.cognitive.microsoft.com/sts/v1.0/issuetoken>

**Request Headers:**

Ocp-Apim-Subscription-Key: c70c20199fb0429992ac543f60f5fc3e

Content-type: application/x-www-form-urlencoded

Content-Length: 0

**Step 2:**

**Usage of Access Token**

The access token that is received in step 1 should be sent to the service as the Authorization: Bearer <TOKEN> header.

**Authorization**: Bearer [Base64 access\_token]

### Request headers

This table lists required and optional headers for text-to-speech requests:

| Header | Description | Required or optional |
| --- | --- | --- |
| Authorization | An authorization token preceded by the word Bearer. For more information, see [Authentication](https://docs.microsoft.com/en-us/azure/cognitive-services/speech-service/rest-text-to-speech#authentication). | Required |
| Content-Type | Specifies the content type for the provided text. Accepted value: application/ssml+xml. | Required |
| X-Microsoft-OutputFormat | Specifies the audio output format. For a complete list of accepted values, see [Audio outputs](https://docs.microsoft.com/en-us/azure/cognitive-services/speech-service/rest-text-to-speech#audio-outputs). | Required |
| User-Agent | The application name. The provided value must be fewer than 255 characters. | Required |

Below is the sample POST request for Text to speech API , the body of POST request is sent as SSML.

SSML allows us to choose the voice and language of the synthesized speech that the text-to-speech feature returns.

Endpoint : <https://eastus.tts.speech.microsoft.com/cognitiveservices/v1?User-Agent=speakit>

**Request headers:**

POST <https://eastus.tts.speech.microsoft.com/cognitiveservices/v1?User-Agent=speakit>

Ocp-Apim-Subscription-Key : c70c20199fb0429992ac543f60f5fc3e

X-Microsoft-OutputFormat : riff-24khz-16bit-mono-pcm

User-Agent : speakit

Content-type : application/ssml+xml

Body :

<speak version='1.0' xml:lang='en-US'><voice xml:lang='en-US' xml:gender='Male'

    name='en-US-ChristopherNeural'>

         purnima

</voice></speak>

**Response Codes:**

The HTTP status code for each response indicates success or common errors

| **HTTP status code** | **Description** | **Possible reason** |
| --- | --- | --- |
| 200 | OK | The request was successful. The response body is an audio file. |
| 400 | Bad request | A required parameter is missing, empty, or null. Or, the value passed to either a required or optional parameter is invalid. A common reason is a header that's too long. |
| 401 | Unauthorized | The request is not authorized. Make sure your subscription key or token is valid and in the correct region. |
| |  | | --- | |  |   415 | Unsupported media type | It's possible that the wrong Content-Type value was provided. Content-Type should be set to application/ssml+xml. |

