

Using the Text to Speech API



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Overview



Create an Account

Showcase the REST API

Showcase Multiple Language
Implementations



Demo



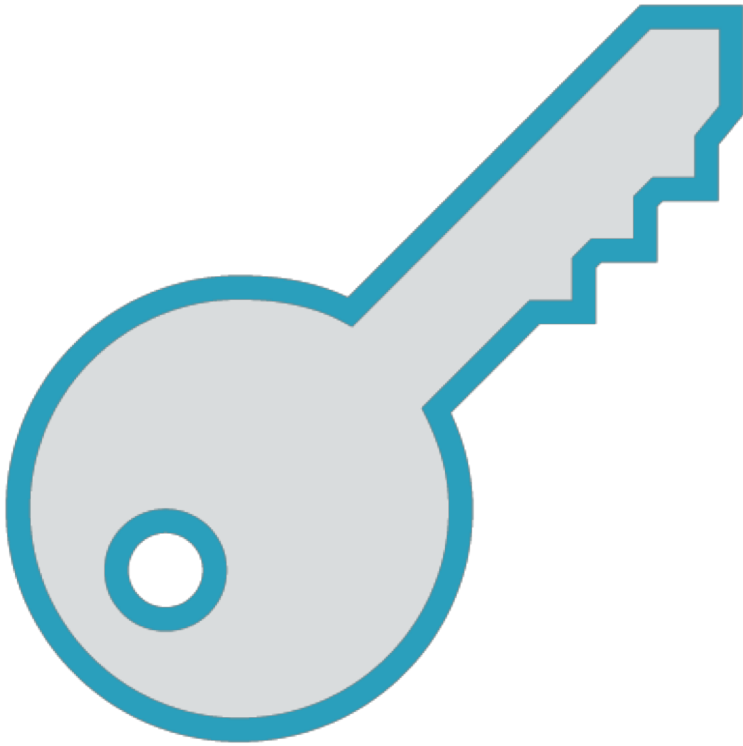
Create a Cognitive Services Account



Text to Speech: REST API



Authentication



Each request to the REST API requires an authorization header

Text to Speech only supports Bearer Tokens

Bearer Tokens are only valid for 10 minutes



POST /sts/v1.0/issueToken HTTP/1.1

Ocp-Apim-Subscription-Key: YOUR_SUBSCRIPTION_KEY

Host: westus.api.cognitive.microsoft.com

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

Content-Length: 0

Create Your Access Token

Replace YOUR_SUBSCRIPTION_KEY with your Speech Service subscription key

If your subscription isn't in the West US region, replace the Host header with your region's host name



Using the Access Token

POST /cognitiveservices/v1 HTTP/1.1

Authorization: Bearer YOUR_ACCESS_TOKEN

Host: westus.tts.speech.microsoft.com

Content-type: application/ssml+xml

{Body}



Required Headers

Authorization

Content-Type

X-Microsoft-OutputFormat

User-Agent



Speech Synthesis Markup Language (SSML)

```
<speak version='1.0' xmlns="http://www.w3.org/2001/10/synthesis"  
xml:lang='en-US'>
```

```
<voice name='Microsoft Server Speech Text to Speech Voice (en-  
US, Guy24kRUS)'>
```

```
<prosody rate="+30.00%"> Welcome to Microsoft Cognitive Services  
Text-to-Speech API.
```

```
</prosody>
```

```
</voice>
```

```
</speak>
```



Demo



Create Authentication Token

Request Standard US Female Voice

Request Neural US Female Voice

Change pitch, timing, speaking rate, volume, and use multiple voices



Text to Speech Applications



Examples

C#

JavaScript

Java

Python

C++



Demo



C#/.NET Core Application

Nodejs Application

Java Application

Python Application

C++ Application



Review



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