

# Microsoft Azure Cognitive Services: Speech to Text SDK

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## UNDERSTANDING THE BASICS OF SPEECH TO TEXT



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# Course Overview



Cognitive Services

Cognitive Services Speech

Speech to Text

Multi-language SDKs

REST API

Batch Processing

Customization

Speech Devices SDK

Demos



# What Is Cognitive Services?

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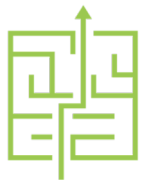
# Cognitive Services



Having Direct AI or Data Science Skills or Knowledge



Polygot SDKs and a Full REST API



See, Hear, Speak, Understand, and Even Begin to Reason



# Cognitive Services

**Vision**

**Speech**

**Language**

**Knowledge**

**Search**



# Cognitive Services: Speech

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# Cognitive Services: Speech



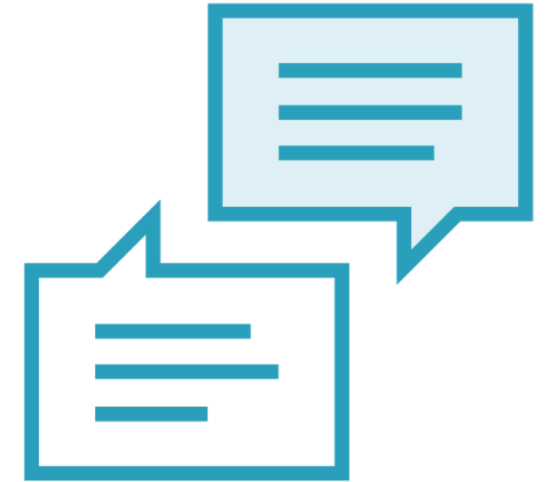
Speech to Text



Text to Speech

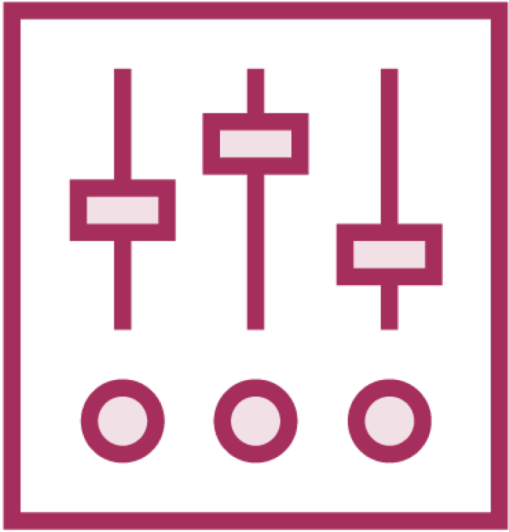


Speaker  
Recognition



Speech  
Translation

# Customization



Acoustic model



Language  
model



Pronunciation  
model



Voice font



# Cognitive Services: Speech to Text

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# Features

Advanced speech recognition technology

Real-time continuous recognition

Lexical and Display form

Many spoken languages and dialects

Customize language and acoustic models

Easily Integrates with other services



# Speech to Text

**SDK Client Library**

**REST API**



# Special Mention

**WebSockets**

**Speech Device SDK**



# Migration Paths



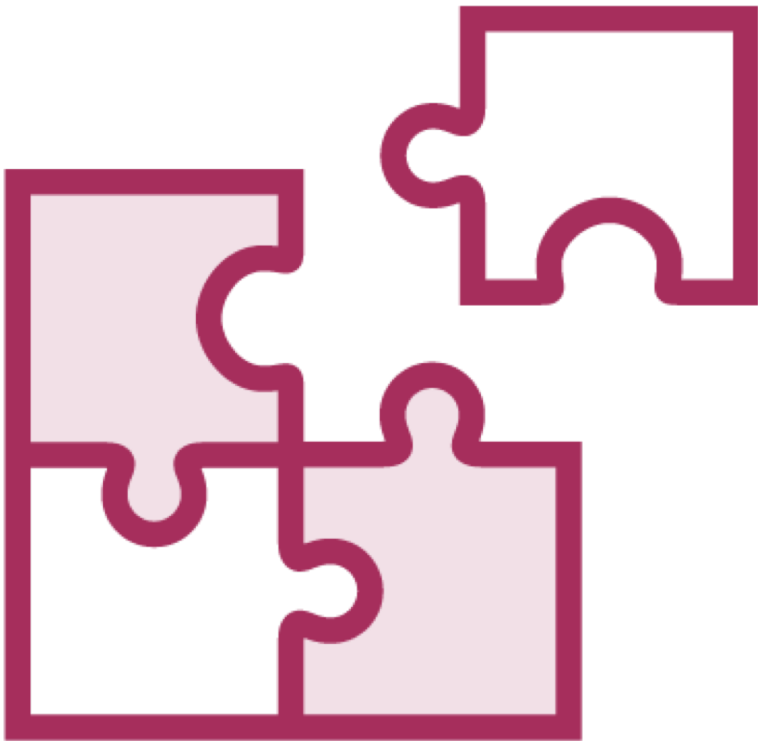
Bing Speech Services



Custom Speech Service



# Use Cases



**Hear and understand customers**

**Streamline the support process**

**Monitor support agents and  
representatives**

**Create interact application experiences**

**Remove barriers for hearing impaired**