

[AI & Machine Learning Products](https://cloud.google.com/products/machine-learning/) (https://cloud.google.com/products/machine-learning/)

[Cloud Speech-to-Text](https://cloud.google.com/speech-to-text/) (https://cloud.google.com/speech-to-text/)

[Documentation](https://cloud.google.com/speech-to-text/docs/) (https://cloud.google.com/speech-to-text/docs/) [Guides](#)

# Using speech adaptation

## Beta

This product or feature is in a pre-release state and might change or have limited support. For more information, see the [product launch stages](https://cloud.google.com/products/#product-launch-stages) (https://cloud.google.com/products/#product-launch-stages).

You can improve the quality of the transcription results you get from Speech-to-Text by using [speech adaptation](https://cloud.google.com/speech-to-text/docs/speech-adaptation) (https://cloud.google.com/speech-to-text/docs/speech-adaptation).

The following code sample demonstrates how to use speech adaptation by setting speech contexts in a request sent to Speech-to-Text API.

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Refer to the [speech:recognize](https://cloud.google.com/speech-to-text/docs/reference/rest/v1p1beta1/speech/recognize)

(https://cloud.google.com/speech-to-text/docs/reference/rest/v1p1beta1/speech/recognize) API endpoint for complete details.

Before using any of the request data below, make the following replacements:

- **language-code**: the BCP-47 code of the language spoken in your audio clip.
- **phrases-to-boost**: phrase or phrases that you want Cloud Speech-to-Text to boost, as an array of strings.
- **storage-bucket**: a Cloud Storage bucket.
- **input-audio**: the audio data that you want to transcribe.

HTTP method and URL:

POST https://speech.googleapis.com/v1p1beta1/speech:recognize

Request JSON body:

```
{
  "config": {
    "languageCode": "language-code",
    "speechContexts": [ {
```

```

    "phrases": [phrases-to-boost],
    "boost": 2
  }
},
"audio": {
  "uri": "gs:storage-bucket/input-file"
}
}

```

To send your request, expand one of these options:

### ▼ curl (Linux, macOS, or Cloud Shell)

**Note:** If you are not executing the command below from [Cloud Shell](https://cloud.google.com/shell/docs) (<https://cloud.google.com/shell/docs>) or [Compute Engine](https://cloud.google.com/compute/docs) (<https://cloud.google.com/compute/docs>), ensure you have set the [GOOGLE\\_APPLICATION\\_CREDENTIALS](https://cloud.google.com/docs/authentication/production) (<https://cloud.google.com/docs/authentication/production>) environment variable to your service account private key file path.

Save the request body in a file called `request.json`, and execute the following command:

```

curl -X POST \
-H "Authorization: Bearer $(gcloud auth application-default print-access-token) \
-H "Content-Type: application/json; charset=utf-8" \
-d @request.json \
https://speech.googleapis.com/v1p1beta1/speech:recognize

```

### ▼ PowerShell (Windows)

**Note:** If you are not executing the command below from [Cloud Shell](https://cloud.google.com/shell/docs) (<https://cloud.google.com/shell/docs>) or [Compute Engine](https://cloud.google.com/compute/docs) (<https://cloud.google.com/compute/docs>), ensure you have set the [GOOGLE\\_APPLICATION\\_CREDENTIALS](https://cloud.google.com/docs/authentication/production) (<https://cloud.google.com/docs/authentication/production>) environment variable to your service account private key file path.

Save the request body in a file called `request.json`, and execute the following command:

```

$cred = gcloud auth application-default print-access-token
$headers = @{ "Authorization" = "Bearer $cred" }

Invoke-WebRequest `
  -Method POST `

```

```
-Headers $headers `
-ContentType: "application/json; charset=utf-8" `
-InFile request.json `
-Uri "https://speech.googleapis.com/v1p1beta1/speech:recognize" | Select-Object
```

You should receive a JSON response similar to the following:

```
{
  "results": [
    {
      "alternatives": [
        {
          "transcript": "When deciding whether to bring an umbrella, I consider th
          "confidence": 0.9463943
        }
      ],
      "languageCode": "en-us"
    }
  ]
}
```

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