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).

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).

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) 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) or Compute Engine (https://cloud.google.com/compute/docs), ensure you have set the **GOOGLE_APPLICATION_CREDENTIALS** (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) or Compute Engine (https://cloud.google.com/compute/docs), ensure you have set the **GOOGLE_APPLICATION_CREDENTIALS** (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"
    }
  ]
}
```