Online VC demo (for personalized offline VC)

Student: Sian-Yi Chen

Advisor: Tay-Jyi Lin and Chingwei Yeh



- 兩種 Online VC 實作方式
 - Python SpeechRecognition 套件 (上週進度)
 - Python 有提供已經打包好的套件 (SpeechRecognition) 供使用
 - 為免費版,但無法自動偵測語言、說話者分段標記等功能
 - 已經完成使用麥克風輸入,轉換成文字再轉換成 Google 小姐的語音
 - 1. Demo 影片:https://youtu.be/HYQNHAk2Eco
 - Google API (本週進度)
 - 完成透過 Speech-to-text 與 Text-to-speech 兩個 API 將語音透過麥克風輸入轉換 成文字再轉換成 Google 人工合成語音
- 下週規劃
 - □ 離線版本實作
 - 環境建置 (使用 Linux 環境架設 YMDVC 執行環境)

附錄-API 實作結果

Debug

```
return wrapped_func(*args, **kwargs)

File "/home/fg6ts30/env/lib/python3.7/site-packages/google/api_core/retry.py", line 286, in retry_wrapped_func
    on_error=on error,

File "/home/fg6ts30/env/lib/python3.7/site-packages/google/api_core/retry.py", line 184, in retry_target
    return target()

File "/home/fg6ts30/env/lib/python3.7/site-packages/google/api_core/grpc_helpers.py", line 75, in error_remapped_callable
    six.raise_from(exceptions.from_grpc_error(exc), exc)

File "<string>", line 3, in raise_from
google.api core.exceptions.PermissionDenied: 403 Your application has authenticated using end user credentials from the Google Cloud SDK or Google Cloud Shell which are not supported by the speech.goog
leapis.com. We recommend configuring the billing/quota_project setting in gcloud or using a service account through the auth/impersonate_service_account setting. For more information about service accounts and how to use them in your application, see https://cloud.google.com/docs/authentication/.

(env) fg6ts30@cloudshell:~/python-speech/samples/snippets$
```

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使用了第一種方法



Create a service account and set up the Cloud SDK to use the service account.



Example command:

 ${\tt gcloud\ auth\ activate-service-account\ test@development-123456.iam.gserviceaccount.com\ --key-like activate-service-account\ test@development-123456.iam.gserviceaccount.com\ --key-like activate-service-account\ test@development-123456.iam.gserviceaccount.com\ --key-like activate-service-account\ test@development-123456.iam.gserviceaccount\ --key-like activate-service-account\ --key-like account\ --key-like accoun$

Method 2:

Set the environment variable GOOGLE_APPLICATION_CREDENTIALS to point to your service account JSON file.

 $\verb|set GOOGLE_APPLICATION_CREDENTIALS=/full path/service-account.json|\\$

Method 3:

No one is clicking my improved?

What's the political re genocide is such a 'b

Attending Group Mee

Is Feudal Elective be

Mergesort Criticism in

Is chess a good game

 Exporting merged lay same CRS using QG

Will a combo afci/gfci neutral issue

Why do we ask for *a series to define the m variable?

△ If I pull a metal bar fo

https://stackoverflow.com/questions/56823383/your-application-has-authenticated-using-end-user-credentials-from-the-google-cl/56826028

Debug

https://cloud.google.com/sdk/gcloud/reference/auth/application-default/set-quota-project?hl=zh-TW

輸入以下指令: gcloud beta auth application-default set-quota-project

	cmd.exe /c ""C:\Users\User\	AppData\Local\Te	mp\tmpji6094	8p\python\python.exe" "-S" "D:\Work_Space\off_line_speech_converter\Google\	-		×	
	Your current Cloud SDK version is: 333.0.0 Installing components from version: 333.0.0							
I	These components will be installed.							
l	Name	Version	Size					
l	gcloud Beta Commands	2019.05.17	< 1 MiB					
	For the latest full release notes, please visit: https://cloud.google.com/sdk/release_notes Do you want to continue (Y/n)? y							
	Creating update staging area							
	-Installing: gcloud Beta Commands			<u> </u>				
	—Creating backup and activating new installati			ion -				
Performing post processing stepsdone.								
	Update done!							
Ē.	請按任意鍵繼續...							

執行完成功解決問題

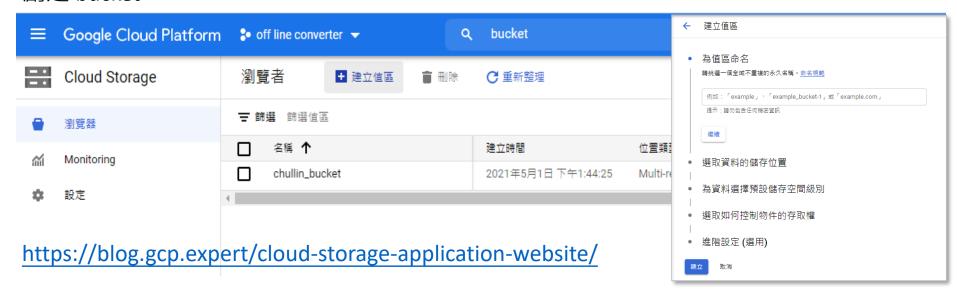
Debug

要求 gcs uri 位置,出現錯誤:

400 Audio URI `D:/Work_Space/off_line_speech_converter/SpeechRecognition/output.mp3` is an invalid GCS path.

在轉換前需要將音檔上傳至 google,要求的路徑為 google 另一項服務

創建 bucket



Debug (最後結果)

音檔內容為: 2021年4月30日,但4辨識錯誤 需要咬字、發音準確

```
Maconda Prompt (Anaconda3) - "C:\Users\User\Anaconda3\condabin\conda.bat" activate offline_converter

(offline_converter) D:\Work_Space\off_line_speech_converter\Quickstarts\python-speech\samples\snippets>python quickstart1.py
why
1
2
3
Transcript: 2021年10月30
Transcript: 2021年10月30
(offline_converter) D:\Work_Space\off_line_speech_converter\Quickstarts\python-speech\samples\snippets>_

(offline_converter) D:\Work_Space\off_line_speech_converter\Quickstarts\python-speech\samples\snippets>_
```

輸入為 wav 檔:為雙聲道,須設定 (default = 單聲道)