


```
!pip install SpeechRecognition
!pip install pydub
```

```
Requirement already satisfied: SpeechRecognition in /usr/local/
Requirement already satisfied: requests>=2.26.0 in /usr/local/
Requirement already satisfied: typing-extensions in /usr/local/
Requirement already satisfied: charset-normalizer<4,>=2 in /usr/
Requirement already satisfied: idna<4,>=2.5 in /usr/local/lib/
Requirement already satisfied: urllib3<3,>=1.21.1 in /usr/loc
Requirement already satisfied: certifi>=2017.4.17 in /usr/loc
Requirement already satisfied: pydub in /usr/local/lib/python3
```

```
import speech_recognition as sr
from pydub import AudioSegment
```

```
from google.colab import files
uploaded = files.upload()
```

 NLP.mp4

- **NLP.mp4**(video/mp4) - 7383583 bytes, last modified: 7/6/2024 - 100% done

Saving NLP.mp4 to NLP (1).mp4

```
audio = AudioSegment.from_file("NLP.mp4") # replace with your fil
audio.export("converted_audio.wav", format="wav")
```

```
<_io.BufferedRandom name='converted_audio.wav'>
```

```
recognizer = sr.Recognizer()
```

```
# Load the audio file
with sr.AudioFile("converted_audio.wav") as source:
    audio_data = recognizer.record(source)
```

```
# Perform the transcription
try:
    text = recognizer.recognize_google(audio_data)
    print("Transcription: ", text)
except sr.UnknownValueError:
    print("Google Speech Recognition could not understand audio")
except sr.RequestError as e:
    print("Could not request results from Google Speech Recognition")
```

```
Transcription: Google
```

```
!pip install SpeechRecognition
!pip install pydub
!pip install gtts
```

```
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```

FileNotFoundError X



You

Please explain the error:

FileNotFoundError: [Errno 2] No such

✦ Gemini

Hypothesis

The error message

"FileNotFoundError: [Errno 2] No such file or directory:

'path/to/onverted_audio.wav'"

indicates that the Python interpreter cannot locate the audio file you are trying to transcribe. This is likely because:

1. **Incorrect File Path:** The path 'path/to/onverted_audio.wav' is a placeholder and needs to be replaced with the actual path to your audio file.
2. **File Does Not Exist:** The file 'onverted_audio.wav' may not exist in the specified directory.

Suggested Changes

```
import speech_recognition as sr
```

```
r = sr.Recognizer()
# Replace 'actual/path/to/your/audio'
with sr.AudioFile('actual/path/to/your/audio') as source:
    audio = r.record(source)
```

```
r.recognize_google(audio, language='en-US')
```

[Use code with caution](#)

Explanation:

1. **File Path Correction:** Replace the placeholder 'actual/path/to/your/audio.wav' with the actual path to your audio file. Make sure the file exists in that location.

```
Requirement already satisfied: pydub in /usr/local/lib/python3.10/site-packages
Requirement already satisfied: gtts in /usr/local/lib/python3.10/site-packages
Requirement already satisfied: requests<3,>=2.27 in /usr/local/lib/python3.10/site-packages
Requirement already satisfied: click<8.2,>=7.1 in /usr/local/lib/python3.10/site-packages
Requirement already satisfied: charset-normalizer<4,>=2 in /usr/local/lib/python3.10/site-packages
Requirement already satisfied: idna<4,>=2.5 in /usr/local/lib/python3.10/site-packages
Requirement already satisfied: urllib3<3,>=1.21.1 in /usr/local/lib/python3.10/site-packages
Requirement already satisfied: certifi<2017.4.17 in /usr/local/lib/python3.10/site-packages
```

```
import speech_recognition as sr
from pydub import AudioSegment
from gtts import gTTS
import IPython.display as ipd
```

```
tts = gTTS(text)
tts.save("NLP.mp4")

# Play the generated audio
ipd.display(ipd.Audio("NLP.mp4"))
```





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2. **Verify File Existence:** Double-check that the audio file is present in the specified directory. You can use file explorer or command line tools to verify this.

If you are still facing issues, please provide the following information:

- **Operating System:** (e.g., Windows, macOS, Linux)
- **Exact file path you are using:**
- **How you are running the code:** (e.g., Jupyter Notebook, Python script)

This will help in providing more specific guidance.

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