

✓ Install Libraries

```
1 # The exclamation mark (!) is used to run shell commands directly from Jupyter Notebook or Google Colab.
2 # This command installs the yt_dlp library, which is used for converting video to audio in Python.
3 !pip install yt_dlp
```

```
Collecting yt_dlp
  Downloading yt_dlp-2025.3.31-py3-none-any.whl.metadata (172 kB)
    172.2/172.2 kB 3.6 MB/s eta 0:00:00
  Downloading yt_dlp-2025.3.31-py3-none-any.whl (3.2 MB)
    3.2/3.2 MB 47.3 MB/s eta 0:00:00
Installing collected packages: yt_dlp
Successfully installed yt_dlp-2025.3.31
```

```
1 # The exclamation mark (!) is used to run shell commands directly from Jupyter Notebook or Google Colab.
2 # This command installs the SpeechRecognition library, which is used for converting speech to text in Python.
3 !pip install speechrecognition
```

```
Collecting speechrecognition
  Downloading speechrecognition-3.14.2-py3-none-any.whl.metadata (30 kB)
Requirement already satisfied: typing-extensions in /usr/local/lib/python3.11/dist-packages (from speechrecognition) (4.13.0)
  Downloading speechrecognition-3.14.2-py3-none-any.whl (32.9 MB)
    32.9/32.9 MB 18.8 MB/s eta 0:00:00
Installing collected packages: speechrecognition
Successfully installed speechrecognition-3.14.2
```

```
1 # The exclamation mark (!) is used to run shell commands directly from Jupyter Notebook or Google Colab.
2 # This command installs the pydub library, which is used for audio processing tasks like converting, slicing, and merging audio files.
3 !pip install pydub
```

```
Collecting pydub
  Downloading pydub-0.25.1-py2.py3-none-any.whl.metadata (1.4 kB)
  Downloading pydub-0.25.1-py2.py3-none-any.whl (32 kB)
Installing collected packages: pydub
Successfully installed pydub-0.25.1
```

✓ Generating Transcript from Audio

```
1 !pip install youtube-transcript-api
```

```
Collecting youtube-transcript-api
  Downloading youtube_transcript_api-1.0.3-py3-none-any.whl.metadata (23 kB)
Requirement already satisfied: defusedxml<0.8.0, >=0.7.1 in /usr/local/lib/python3.11/dist-packages (from youtube-transcript-api) (0.7.1)
Requirement already satisfied: requests in /usr/local/lib/python3.11/dist-packages (from youtube-transcript-api) (2.32.3)
Requirement already satisfied: charset-normalizer<4, >=2 in /usr/local/lib/python3.11/dist-packages (from requests->youtube-transcript-api) (3.3.0)
Requirement already satisfied: idna<4, >=2.5 in /usr/local/lib/python3.11/dist-packages (from requests->youtube-transcript-api) (3.10.1)
Requirement already satisfied: urllib3<3, >=1.21.1 in /usr/local/lib/python3.11/dist-packages (from requests->youtube-transcript-api) (2.2.3)
Requirement already satisfied: certifi<2017.4.17 in /usr/local/lib/python3.11/dist-packages (from requests->youtube-transcript-api) (2025.1.31)
  Downloading youtube_transcript_api-1.0.3-py3-none-any.whl (2.2 MB)
    2.2/2.2 MB 26.6 MB/s eta 0:00:00
Installing collected packages: youtube-transcript-api
Successfully installed youtube-transcript-api-1.0.3
```

```
1 !pip install pytube
```

```
Collecting pytube
  Downloading pytube-15.0.0-py3-none-any.whl.metadata (5.0 kB)
  Downloading pytube-15.0.0-py3-none-any.whl (57 kB)
    57.6/57.6 kB 2.6 MB/s eta 0:00:00
Installing collected packages: pytube
Successfully installed pytube-15.0.0
```

```
1 import re
2 import urllib.parse
3 import requests
4 from youtube_transcript_api import YouTubeTranscriptApi
5 from pytube import YouTube
6 import speech_recognition as sr
7 from pydub import AudioSegment
8 import os
9 import yt_dlp
10 def extract_video_id(video_url):
11     """
12     Extracts the YouTube video ID from various URL formats.
13     """
```

```

14     parsed_url = urllib.parse.urlparse(video_url)
15     query_params = urllib.parse.parse_qs(parsed_url.query)
16
17     if "v" in query_params:
18         return query_params["v"][0]
19
20     match = re.search(r"(youtu\.be/|youtube\.com/embed/|youtube\.com/shorts/)([w-]+)", video_url)
21     if match:
22         return match.group(2)
23
24     return None
25
26 def download_audio(video_url):
27     """
28     Downloads the audio using yt-dlp with cookies and returns the file path.
29     """
30     try:
31         ydl_opts = {
32             'format': 'bestaudio/best',
33             'outtmpl': 'audio.%(ext)s',
34             'cookiefile': '/content/cookies (2).txt', # Use the exported cookies
35             'postprocessors': [{
36                 'key': 'FFmpegExtractAudio',
37                 'preferredcodec': 'mp3',
38                 'preferredquality': '192',
39             }],
40         }
41         with yt_dlp.YoutubeDL(ydl_opts) as ydl:
42             info = ydl.extract_info(video_url, download=True)
43             return "audio.mp3"
44     except Exception as e:
45         return f"Error downloading audio: {str(e)}"
46
47 def convert_audio_to_wav(audio_file):
48     """
49     Converts the downloaded MP3 audio to WAV format using pydub.
50     """
51     wav_file = "audio.wav"
52     try:
53         AudioSegment.from_mp3(audio_file).export(wav_file, format="wav")
54         return wav_file
55     except Exception as e:
56         return f"Error converting to WAV: {str(e)}"
57
58 def transcribe_audio(audio_path, chunk_length=30):
59     """
60     Splits audio into smaller chunks and transcribes each chunk separately.
61     Args:
62         audio_path (str): Path to the audio file.
63         chunk_length (int): Length of each chunk in seconds (default: 30).
64     Returns:
65         list: List of dictionaries containing transcribed text and timestamps.
66     """
67     recognizer = sr.Recognizer()
68     audio = AudioSegment.from_wav(audio_path)
69     total_duration = len(audio) / 1000 # Convert to seconds
70     transcribed_segments = []
71
72     print("Transcribing audio in chunks...")
73
74     # Split and transcribe audio in chunks
75     for start in range(0, int(total_duration), chunk_length):
76         end = min(start + chunk_length, int(total_duration))
77         chunk = audio[start * 1000:end * 1000] # Extract chunk in milliseconds
78         chunk.export("chunk.wav", format="wav") # Save chunk temporarily
79
80         with sr.AudioFile("chunk.wav") as source:
81             try:
82                 audio_data = recognizer.record(source)
83                 text = recognizer.recognize_google(audio_data)
84                 transcribed_segments.append({
85                     "start": start,
86                     "end": end,
87                     "text": text
88                 })
89             except sr.UnknownValueError:
90                 transcribed_segments.append({
91                     "start": start,
92                     "end": end,
93                     "text": "[Unintelligible]"
94                 })
95     except sr.RequestError as e:

```

```

96         return f"Error with the speech recognition service: {str(e)}"
97
98     os.remove("chunk.wav") # Clean up temporary chunk file
99     return transcribed_segments
100
101 def get_transcript_unlisted(video_url):
102     """
103     Tries to fetch the transcript using youtube_transcript_api first,
104     then falls back to downloading and transcribing audio if necessary.
105     """
106     video_id = extract_video_id(video_url)
107     if not video_id:
108         return "Invalid YouTube URL."
109
110     # Try to fetch transcript using youtube_transcript_api
111     try:
112         transcript = YouTubeTranscriptApi.get_transcript(video_id)
113         # Add 'end' time to each segment
114         for segment in transcript:
115             segment["end"] = segment["start"] + segment["duration"]
116         return transcript # Return transcript with timestamps
117     except:
118         print("Transcript not available via API, attempting audio transcription...")
119
120     # Download and transcribe audio if no transcript is available
121     audio_file = download_audio(video_url)
122     if "Error" in audio_file:
123         return audio_file
124
125     wav_file = convert_audio_to_wav(audio_file)
126     if "Error" in wav_file:
127         return wav_file
128
129     transcription = transcribe_audio(wav_file)
130
131     # Cleanup temporary files
132     os.remove(audio_file)
133     os.remove(wav_file)
134
135     return transcription
136
137 def save_transcript_to_file(transcript, filename="transcript.txt"):
138     """
139     Saves the transcript to a text file.
140     Args:
141         transcript (list or str): The transcript to save.
142         filename (str): The name of the output file.
143     """
144     with open(filename, "w", encoding="utf-8") as file:
145         if isinstance(transcript, list):
146             for segment in transcript:
147                 file.write(f"{segment['start']} - {segment['end']}: {segment['text']}\n")
148         else:
149             file.write(transcript)
150     print(f"Transcript saved to {filename}")
151
152 # Example usage
153 if __name__ == "__main__":
154     video_url = input("Enter the YouTube video URL: ")
155     transcript = get_transcript_unlisted(video_url)
156
157     if isinstance(transcript, list):
158         print("\nTranscript with Timestamps:")
159         for segment in transcript:
160             print(f"{segment['start']} - {segment['end']}: {segment['text']}")
161     else:
162         print("\nTranscript:\n", transcript)
163
164     # Save transcript to a text file
165     save_transcript_to_file(transcript, "transcript.txt")

```



```
-----
KeyboardInterrupt                                Traceback (most recent call last)
<ipython-input-6-1e4221868400> in <cell line: 0>()
    152 # Example usage
    153 if __name__ == "__main__":
--> 154     video_url = input("Enter the YouTube video URL: ")
    155     transcript = get_transcript_unlisted(video_url)
    156
```

1 frames

```
/usr/local/lib/python3.11/dist-packages/ipykernel/kernelbase.py in _input_request(self, prompt, ident, parent, password)
    1217     except KeyboardInterrupt:
    1218         # re-raise KeyboardInterrupt, to truncate traceback
-> 1219         raise KeyboardInterrupt("Interrupted by user") from None
    1220     except Exception:
    1221         self.log.warning("Invalid Message:", exc_info=True)
```

KeyboardInterrupt: Interrupted by user

```
1 import re
2 import urllib.parse
3 import requests
4 from youtube_transcript_api import YouTubeTranscriptApi
5 from pytube import YouTube
6 import speech_recognition as sr
7 from pydub import AudioSegment
8 import os
9 import yt_dlp
10
11 def extract_video_id(video_url):
12     parsed_url = urllib.parse.urlparse(video_url)
13     query_params = urllib.parse.parse_qs(parsed_url.query)
14
15     if "v" in query_params:
16         return query_params["v"][0]
17
18     match = re.search(r"(youtu\.be/|youtube\.com/embed/|youtube\.com/shorts/)([w-]+)", video_url)
19     if match:
20         return match.group(2)
21
22     return None
23
24 def download_audio(video_url):
25     try:
26         ydl_opts = {
27             'format': 'bestaudio/best',
28             'outtmpl': 'audio.%(ext)s',
29             'postprocessors': [{
30                 'key': 'FFmpegExtractAudio',
31                 'preferredcodec': 'mp3',
32                 'preferredquality': '192',
33             }],
34         }
35         with yt_dlp.YoutubeDL(ydl_opts) as ydl:
36             info = ydl.extract_info(video_url, download=True)
37             return "audio.mp3"
38     except Exception as e:
39         return f"Error: {str(e)}"
40
41 def convert_audio_to_wav(audio_file):
42     if "Error" in audio_file:
43         return audio_file
44     wav_file = "audio.wav"
45     try:
46         AudioSegment.from_mp3(audio_file).export(wav_file, format="wav")
47         return wav_file
48     except Exception as e:
49         return f"Error converting to WAV: {str(e)}"
50
51 def transcribe_audio(audio_path, chunk_length=30):
52     if "Error" in audio_path:
53         return audio_path
54     recognizer = sr.Recognizer()
55     audio = AudioSegment.from_wav(audio_path)
56     total_duration = len(audio) / 1000
57     transcribed_segments = []
58     formatted_transcript = {}
59
60     for start in range(0, int(total_duration), chunk_length):
61         end = min(start + chunk_length, int(total_duration))
```

```

62     chunk = audio[start * 1000:end * 1000]
63     chunk.export("chunk.wav", format="wav")
64
65     with sr.AudioFile("chunk.wav") as source:
66         try:
67             audio_data = recognizer.record(source)
68             text = recognizer.recognize_google(audio_data)
69         except sr.UnknownValueError:
70             text = "[Unintelligible]"
71         except sr.RequestError as e:
72             return f"Error with the speech recognition service: {str(e)}"
73
74     formatted_transcript[f"{start}-{end}"] = text
75
76     os.remove("chunk.wav")
77     return formatted_transcript
78
79 def get_transcript_unlisted(video_url):
80     video_id = extract_video_id(video_url)
81     if not video_id:
82         return "Invalid YouTube URL."
83
84     try:
85         transcript = YouTubeTranscriptApi.get_transcript(video_id)
86         formatted_transcript = {}
87         for segment in transcript:
88             start = int(segment["start"] // 30) * 30
89             end = start + 30
90             if f"{start}-{end}" not in formatted_transcript:
91                 formatted_transcript[f"{start}-{end}"] = ""
92                 formatted_transcript[f"{start}-{end}"] += " " + segment["text"]
93         return formatted_transcript
94     except:
95         print("Transcript not available via API, attempting audio transcription...")
96
97     audio_file = download_audio(video_url)
98     if "Error" in audio_file:
99         return audio_file
100
101     wav_file = convert_audio_to_wav(audio_file)
102     if "Error" in wav_file:
103         return wav_file
104
105     transcription = transcribe_audio(wav_file)
106     os.remove(audio_file)
107     os.remove(wav_file)
108
109     return transcription
110
111 def save_transcript_to_file(transcript, filename="transcript.txt"):
112     if isinstance(transcript, str):
113         print("Error:", transcript)
114         return
115
116     with open(filename, "w", encoding="utf-8") as file:
117         for time_range, text in transcript.items():
118             file.write(f"{time_range}: {text}\n")
119     print(f"Transcript saved to {filename}")
120
121 if __name__ == "__main__":
122     video_url = input("Enter the YouTube video URL: ")
123     transcript = get_transcript_unlisted(video_url)
124
125     if isinstance(transcript, dict):
126         print("\nFormatted Transcript:")
127         for time_range, text in transcript.items():
128             print(f"{time_range}: {text}")
129     else:
130         print("\nError:\n", transcript)
131
132     save_transcript_to_file(transcript, "transcript.txt")

```

Enter the YouTube video URL: <https://youtu.be/UXoUwBW5nhs?si=KmBXMJwUfW2vIV1t>

Formatted Transcript:

0-30: most people think that being attractive is about looking good and while your looks do matter to some extent they are not the
30-60: hit subscribe because I bring you videos like this every single week and let's learn about my top six most powerful ways to
60-90: already there and investing in your appearance is literally in your control most of the times and it's not just because look
90-120: elevated my confidence like nothing else this is something called the enclothed cognition effect in Psychology every time y
120-150: automatic positive self talk repeating over and over again in your head and what happens when you repeat something over a
150-180: your life and when you have trust in yourself you automatically stand out and become memorable and thereby you become some
180-210: person in addition to looking interesting how do you do that think back to when you were a kid and try to remember your fr
210-240: we don't want to stand out we want to blend in we want to feel relatable but developing an interesting personality and att

240-270: trained to identify applicants who have cool personalities and they do this by figuring out if an applicant is better than
270-300: one or two Niche things that truly interest you and then invest enough time enough energy into it to become better than them
300-330: dishes coffee it's coffee for me honestly street photography or even knowing every IPL player's stats the key is to dive into
330-360: responses automatically set you apart people will listen because you're presenting something different from what they normally
360-390: ability to be interesting but then when you actually go to have a conversation with someone you find yourself stuck in a loop
390-420: making them feel like they just had the best conversation of their life let's break it down now imagine that you're at a venue
420-450: something they can contribute towards so how exactly do you get to this stage firstly remember that conversations are not
450-480: Maggie tasted at 18,000 ft why is Mountain food so much better now they're thinking about their own travel experiences or
480-510: so if somebody says they love Cricket don't just stop at oh cool so do I follow it up with if you could watch A Match live
510-540: conversation awkward silences will be a part of you know your vocabulary for example you can have a story about the time you
540-570: sleeve you don't have to use it every time but whenever there's an awkward silence whenever you don't know how to steer a
570-600: reacting keeping the vibe alive think about it no one remembers the exact words somebody said but they always remember how
600-630: practice this the better you will get at it soon you will go from that person was nice to wow I really enjoyed talking to
630-660: world around you it's impossible to be engaging to be memorable to be attractive when your entire knowledge base is limited
660-690: build the blocks of your personality and all you need to do is just keep doing more things that you find interesting you naturally
690-720: and we learned how to make pizza and pasta from scratch and anytime somebody talks to us about Italy or anytime somebody tells
720-750: right when you expose yourself to new experiences you naturally become the kind of person who always has something to share
750-780: about celebrities it is about actively seeking out new experiences new ideas new cultures and you can do this simply by just
780-810: to talk about now one very crucial part of being interesting is being mysterious having that air of oh I want to know more
810-840: you for granted it's human nature we value what feels rare and intentional not what is always there so like they say right
840-870: that my time is important and so am I and when you prioritize yourself people see you as confident they see you as independent
870-900: quality over quantity you will notice that the world starts respecting this and valuing you a lot [Music] more now one factor
900-930: memorable think about gen z influencers right so many of them are memorable you can probably list five 10 different influencers
930-960: earned every action you take how you show up in the world what you say how you say it how you treat people all of these things
960-990: respectable the first is discipline somebody who sticks to their word someone who shows up for themselves regardless of how
990-1020: person who actually finishes their part without being chased down that's the person that everybody respects maybe everybody
1020-1050: when you respect yourself other people naturally follow through on the same energy the second trait that I have seen in
1050-1080: Blake Lively and Justin Baldoni drama on the flip side when somebody is kind even if they're not the funniest or the smartest
1080-1110: like good celebrity PR honestly admittedly some people are inherently better at doing this but if you have the right knowledge
1110-1140: to and you're going to spend 30 minutes a day for the next month learning more about that thing and doing or practicing
Transcript saved to transcript.txt

```
1 pip install -U yt-dlp
```

```
2
```

🔗 Requirement already satisfied: yt-dlp in /usr/local/lib/python3.11/dist-packages (2025.2.19)

```
1 Start coding or generate with AI.
```