

Documentation

Pre-requisites

Before running the python script, please ensure that python is installed. Also, you will have to get an API key from Google.

<https://blog.hubspot.com/website/how-to-get-youtube-api-key>



How to Get a YouTube API Key

- 1. Log in to Google Developers Console.
- 2. Create a new project.
- 3. On the new project dashboard, click Explore & Enable APIs.
- 4. In the library, navigate to YouTube Data API v3 under YouTube APIs.
- 5. Enable the API.
- 6. Create a credential.
- 7. A screen will appear with the API key.

<https://console.cloud.google.com/cloud-resource-manager>

Name *

API key 1

Key restrictions

This key is unrestricted. To prevent unauthorized use, we recommend restricting where and for which APIs it can be used. [Learn more](#)

Set an application restriction

Additional information

API Key

Use this key in your application by passing it with `key=API_KEY` parameter.

Creation date

October 28, 2024 at 10:56:45 PM GMT+8

Setting up environment

1. Open the folder containing the script
2. Open terminal in the folder
3. Type the following commands

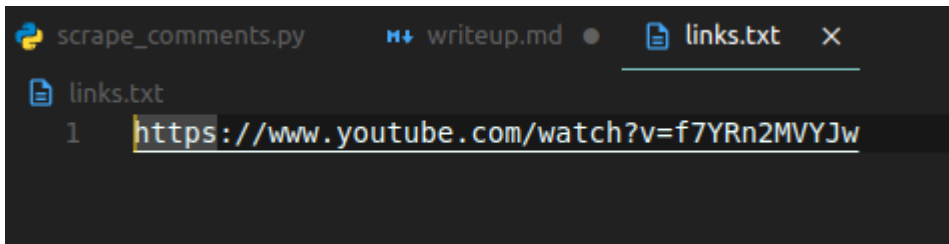
```
pip3 install -r requirements.txt
```

1. Open the script (scrape_comments.py) with your editor
2. Enter your API key in this part of the script

```
6 from openpyxl import Workbook
7
8 api_key = 'YOUR_API_KEY' # YOUR API KEY HERE
9 youtube = build('youtube', 'v3', developerKey=api_key)
10
11 > def convert.UTC_to_tz(utc_time_str, target_timezone="Asia/Sec
```

Video links

The video links that you want to download should be in links.txt file.



The screenshot shows a code editor with three tabs: 'scrape_comments.py', 'writeup.md', and 'links.txt'. The 'links.txt' tab is active, showing a single line of text: 'https://www.youtube.com/watch?v=f7YRn2MVYJw'. The URL is highlighted with a yellow selection bar.

You can add additional links if you want to run the script for multiple videos. Add it in this manner

```
https://www.youtube.com/watch?v=K2I8aICAk58
https://www.youtube.com/watch?v=pq0lWeRigq8
https://www.youtube.com/watch?v=Fbr3JZAXDxA
```

NOTE: The script only supports URL with this format only `https://www.youtube.com/watch?v=XXXXXXXXXX`

Relevant comments vs oldest comments

If you want to change the type of comments you want to scrape, you can change it in this line

```
225 def main():
226     with open('links.txt', 'r') as links:
227         for link in links:
228             video_url = link.rstrip('\n')
229             video_id = get_video_id(video_url)
230             video_title = get_video_title(video_id)
231             comments = fetch_comments(video_url, max_results=100, order="relevance") # Change order to relevance OR time
232             save_comments_to_excel(video_title, comments)
233             video_details, title = get_video_details(video_url)
234             save_video_details_to_excel(video_details=video_details, title=title)
235
236 if __name__ == "__main__":
237     main()
238
```

relevance - Youtube's top comments time - Get oldest comments

NOTE: getting oldest comments will require a long time and uses up quite a lot of API query. Please use sparingly

Running the script

1. Open the folder containing the script
2. Open terminal in the folder
3. Type the following commands

```
python3 scrape_comments.py
```

```
python3 scrape_comments.py
Comments saved to results/NCT랑 중국 집에서 1인 2메뉴 뿌셨다! scraped on 29-10-2024 01:58:24.xlsx
Saved video details to results/NCT랑 중국 집에서 1인 2메뉴 뿌셨다!
```

	A	B	C	D	E	F	G	H	I	J
1	Top-Level Comment Username	Comment Date (UTC)	Comment	Comment	Comment	Reply User	Reply Date	Reply Date	Reply Text	Reply Likes
2	@aurorafuze	2019-06-19T16:53:47Z	### i love hov		46681	@Detnaq	2019-06-		### This com	1550
3	@aurorafuze	2019-06-19T16:53:47Z	### i love hov		46681	@aizen32	2019-06-		### they reall	977
4	@aurorafuze	2019-06-19T16:53:47Z	### i love hov		46681	@abeed3	2019-06-		### loooo! ?	264
5	@aurorafuze	2019-06-19T16:53:47Z	### i love hov		46681	@yourlo	2019-06-		### the only	483
6	@aurorafuze	2019-06-19T16:53:47Z	### i love hov		46681	@bluelizz	2019-06-		### No one c	396
7	@aurorafuze	2019-06-19T16:53:47Z	### i love hov		46681	@El-mr8	2019-06-		### Well said	115
8	@aurorafuze	2019-06-19T16:53:47Z	### i love hov		46681	@kpopfa	2019-06-		### Intan Saf	58
9	@aurorafuze	2019-06-19T16:53:47Z	### i love hov		46681	@Myuni	2019-06-		### Intan Saf	11
10	@aurorafuze	2019-06-19T16:53:47Z	### i love hov		46681	@gyuisth	2019-06-		### 🤔🤔🤔	9
11	@aurorafuze	2019-06-19T16:53:47Z	### i love hov		46681	@voidbie	2019-07-		### Exactly lol	8
12	@aurorafuze	2019-06-19T16:53:47Z	### i love hov		46681	@greelin	2019-08-		### Yea.. they	29
13	@aurorafuze	2019-06-19T16:53:47Z	### i love hov		46681	@elishak	2019-08-		### 😂😂😂	6
14	@aurorafuze	2019-06-19T16:53:47Z	### i love hov		46681	@michell	2019-08-		### Tom Tuck	12
15	@aurorafuze	2019-06-19T16:53:47Z	### i love hov		46681	@juuzou	2019-08-		### @Channy	6
16	@aurorafuze	2019-06-19T16:53:47Z	### i love hov		46681	@felinaw	2019-09-		### WHY ARE	4
17	@aurorafuze	2019-06-19T16:53:47Z	### i love hov		46681	@meowr	2019-10-		### Yes exact	3
18	@aurorafuze	2019-06-19T16:53:47Z	### i love hov		46681	@schade	2019-11-		### GOLDEN	3
19	@aurorafuze	2019-06-19T16:53:47Z	### i love hov		46681	@prettyli	2020-03-		### Looooool	2
20	@aurorafuze	2019-06-19T16:53:47Z	### i love hov		46681	@kaitlyn	2020-04-		### 🙄🙄🙄	2
21	@aurorafuze	2019-06-19T16:53:47Z	### i love hov		46681	@erench	2020-06-		### 🤔🤔🤔	0
22	@aurorafuze	2019-06-19T16:53:47Z	### i love hov		46681	@anacab	2020-07-		### YES 🤔💖	0
23	@aurorafuze	2019-06-19T16:53:47Z	### i love hov		46681	@thehaz	2021-06-		### Im clackir	0
24	@aurorafuze	2019-06-19T16:53:47Z	### i love hov		46681	@kuanup	2021-07-		### Best com	0
25	@aurorafuze	2019-06-19T16:53:47Z	### i love hov		46681	@dindar	2021-07-		### WHATSH	0
26	@aurorafuze	2019-06-19T16:53:47Z	### i love hov		46681	@Aliceyi2	2022-06-		### this com	0
27	@aurorafuze	2019-06-19T16:53:47Z	### i love hov		46681	@mijanh	2022-12-		### 🤔	0
28	@laurenttran9866	2019-06-19T17:33:53Z	### The fact th		12954	@AyARe	2019-06-		### 🙄	307
	A	B	C	D	E	F	G	H	I	J
1	title_english	title_original	date_uploaded	video_link	duration	description	view_count	like_count	comment_count	
2	Eating Through Half the Me	NCT랑 중국집에	2019-06-19T	https://www.y	PT16M52S	Translator	6222066	319151	14287	
3										