

```
In [ ]: import requests
```

```
In [ ]: video_id = "l-nMKJ5J3Uc"
```

```
api_key = "AIzaSyCJF6LjCay6oDQ1Bv-o09ewD55Vktn_FEQ"
```

```
In [ ]: video_info_url = f"https://www.googleapis.com/youtube/v3/videos?part=snippet&id={video_id}&key={api_key}"
video_info_response = requests.get(video_info_url)
video_info_data = video_info_response.json()

print(video_info_data)
```

```
{'kind': 'youtube#videoListResponse', 'etag': 'cAeJdcwEec5A07417b_OiUeUc0Y', 'items': [{'kind': 'youtube#video', 'etag': 'u4-XQ9ckrQCzaLXq9HWCeClDJ
```

#### Retrieve Youtube Video Comments

```
In [ ]: comments_url = f"https://www.googleapis.com/youtube/v3/commentThreads?part=snippet&videoId={video_id}&key={api_key}"
comments_response = requests.get(comments_url)
comments_data = comments_response.json()

comments_data
```

```
Out [14]: {'kind': 'youtube#commentThreadListResponse',
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     'etag': '6TuYrFIcKs6M400Ebdsp00-WHAA',
     'id': 'UgzQN10bJFaZY1bnnpR4AaABAg',
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       'etag': 'gEr-6A562psUXT5iyz9GQf56POA',
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        'videoId': 'l-nMKJ5J3Uc',
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        'textOriginal': 'i cried because of the 40s',
        'authorDisplayName': '@thebiggestswiftieever-yu9jp',
        'authorProfileImageUrl': 'https://yt3.ggpht.com/ytC/AIdro_lBa1TOTI6Ac3TsIzX03aaHUH3mJSI6jMbDhLzZGIf7y04pPVxsZTsJIILEIqd9MBymg=s48-c-k-c0x00ffffff-no-rj',
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        'videoId': 'l-nMKJ5J3Uc',
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          'textOriginal': 'I didn't even notice that this video was 40 mins long :D Felt way shorter',
          'authorDisplayName': '@MsYolost',
          'authorProfileImageUrl': 'https://yt3.ggpht.com/ytC/AIdro_n92-q9pcQutF6xngbrcwDjHuJlFnyFurNg9NgvJHk=s48-c-k-c0x00ffffff-no-rj',
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          'authorChannelId': {'value': 'UCNTgLPWeSGFARu4PNFSJkAQ'},
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         'canReply': True,
         'totalReplyCount': 0,
         'isPublic': True}},
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          'videoId': 'l-nMKJ5J3Uc',
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           'etag': 'GiWGVQLf6wzXYiCo0i3cUgYc90Y',
           'id': 'UgydFuPlmzUwQ74Nnax4AaABAg',
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            'textOriginal': 'Esse foi o vídeo que eu mais odiei',
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            'authorProfileImageUrl': 'https://yt3.ggpht.com/fpbchPV5PjjtfZiWg-T5CrW4g62up0k8K-aZqrCwvoofXoo30QMxP2H-ifsF70qMyveWjQUJ2g=s48-c-k-c0x00ffffff-no-rj',
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            'authorChannelId': {'value': 'UC0kU2YXN4GERPWjy8S1ycmg'},
            'canRate': True,
            'viewerRating': 'none',
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            'videoId': 'l-nMKJ5J3Uc',
            'topLevelComment': {'kind': 'youtube#comment',
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             'id': 'UgygSaUGMivX7_HnzAx4AaABAg',
             'snippet': {'channelId': 'UCX60Q3DkcsbYNE6H8uQQuVA',
              'videoId': 'l-nMKJ5J3Uc',
```

```

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'videoId': 'l-nMKJ5J3Uc',
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'textOriginal': 'Hey what I want you to do is go to time stamp \nChallenge audio truck to',
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'authorProfileImageUrl': 'https://yt3.ggpht.com/8n80BugkLE5zJAQ7kF_mp2628K41BUv0D0Zpn_gk7VfAq8CSAiPT3HiF49vvGSo_es0wYwWbFA=s48-c-k-c0x00ffffff-no-rj',
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'textDisplay': 'good job no that I was sad in the end',
'textOriginal': 'good job no that I was sad in the end',
'authorDisplayName': '@Cookie-lv1kj',
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'updatedAt': '2024-04-27T16:11:09Z'},
'canReply': True,
'totalReplyCount': 0,
'isPublic': True}}}]

```

```
In [ ]: #extract the comment
```

```

comments = [item["snippet"]["topLevelComment"]["snippet"]["textOriginal"] for item in comments_data["items"]]

print(comments)

```

```
['LONGER VIDEOS WITH STORYTELLING IS HERE', '7 said I will buy you Roblox I promise if you get out of your cube', 'Wish I was in a mr beast vid', '']
```

### Sentiments Analysis Of the Comments

```
In [ ]: from textblob import TextBlob
```

```

In [ ]: def get_comment_sentiment(comment):
        analysis = TextBlob(comment)

        if analysis.sentiment.polarity > 0:
            return 'positive'
        elif analysis.sentiment.polarity == 0:
            return 'neutral'
        else:
            return 'nagative'

for comment in comments:
    print(f"{comment}: {get_comment_sentiment(comment)}")

comment_list = []

sentiment_list =[]

for comment in comments:
    sentiment = get_comment_sentiment(comment)
    comment_list.append(comment)

```

```
sentiment_list.append(sentiment)
print(f"{comment} : {sentiment}")
```

```
LONGER VIDEOS WITH STORYTELLING IS HERE: neutral
7 said I will buy you Roblox I promise if you get out of your cube: neutral
Wish I was in a mr beast vid: neutral
Best video in a while: positive
42 was a literal puppeteer, just absolutely controlling 43. And 43 was just a puppet who somewhat couldn't think for herself. Glad 58 ended the cycl
40s are evil mostly 43 and 42.: negative
Longer vids are always better brother.: positive
I'm fighting who ever eliminates me: neutral
Mrbeast slowly turning his channel into squid
Games: negative
Me cae mal 43 and 42: neutral
"Now is not the time to develop a heart": neutral
❤️❤️❤️❤️🎉🎉🎉🎉: neutral
96years old is amazing 😊: positive
42 is such a cartoon Villain 😏😏😏😏: neutral
i cried because of the 40s: neutral
I didn't even notice that this video was 40 mins long :D Felt way shorter: positive
Esse foi o vídeo que eu mais odiei: neutral
dis is psychological torture: neutral
Hey what I want you to do is go to time stamp
Challenge audio truck to: neutral
good job no that I was sad in the end: positive
LONGER VIDEOS WITH STORYTELLING IS HERE : neutral
7 said I will buy you Roblox I promise if you get out of your cube : neutral
Wish I was in a mr beast vid : neutral
Best video in a while : positive
42 was a literal puppeteer, just absolutely controlling 43. And 43 was just a puppet who somewhat couldn't think for herself. Glad 58 ended the cycl
40s are evil mostly 43 and 42. : negative
Longer vids are always better brother. : positive
I'm fighting who ever eliminates me : neutral
Mrbeast slowly turning his channel into squid
Games : nagative
Me cae mal 43 and 42 : neutral
"Now is not the time to develop a heart": neutral
❤️❤️❤️❤️🎉🎉🎉🎉: neutral
96years old is amazing 😊 : positive
42 is such a cartoon Villain 😏😏😏😏 : neutral
i cried because of the 40s : neutral
I didn't even notice that this video was 40 mins long :D Felt way shorter : positive
Esse foi o vídeo que eu mais odiei : neutral
dis is psychological torture : neutral
Hey what I want you to do is go to time stamp
Challenge audio truck to : neutral
good job no that I was sad in the end : positive
```

```
In [ ]: import pandas as pd

comment_list

sentiment_list

sentiment_df = pd.DataFrame({"Comments": comment_list,"Sentiment": sentiment_list})

sentiment_df

sentiment_df.to_csv("YouTube_Comments_Sentiment.csv") #gets saved to current folder
```

```
In [ ]: sentiment_df
```

Out [19]:

	Comments	Sentiment
0	LONGER VIDEOS WITH STORYTELLING IS HERE	neutral
1	7 said I will buy you Roblox I promise if you...	neutral
2	Wish I was in a mr beast vid	neutral
3	Best video in a while	positive
4	42 was a literal puppeteer, just absolutely co...	positive
5	40s are evil mostly 43 and 42.	negative
6	Longer vids are always better brother.	positive
7	I'm fighting who ever eliminates me	neutral
8	Mrbeast slowly turning his channel into squid ...	negative
9	Me cae mal 43 and 42	neutral
10	"Now is not the time to develop a heart"	neutral
11	❤️❤️❤️❤️🎉🎉🎉🎉	neutral
12	96years old is amazing 😊	positive
13	42 is such a cartoon Villain 😏😏😏😏	neutral
14	i cried because of the 40s	neutral
15	I didn't even notice that this video was 40 mi...	positive
16	Esse foi o vídeo que eu mais odiei	neutral
17	dis is psychological torture	neutral
18	Hey what I want you to do is go to time stamp ...	neutral
19	good job no that I was sad in the end	positive