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from googleapiclient.discovery import build
import ison
import requests
import time
import pandas as pd
import re
import numpy as np
# url_input = "https://www.youtube.com/watch?v=BaGgScV4NN8"
# url_input = "https://www.youtube.com/watch?v=Qr41mwb-oQk"
input list = [
"https://www.youtube.com/watch?v=Qr41mwb-oQk",
"https://www.youtube.com/watch?v=m_LfH48sTmY",
"https://www.youtube.com/watch?v=LBukoM3CLic",
"https://www.youtube.com/watch?v=SY4P175BJPQ",
"https://www.youtube.com/watch?v=mL00hNBxTzU"
id list=[]
for url in input list:
      video id split =url.split('=')
      video_id=video_id_split[1]
      # print(video_id)
      id list.append(video_id)
print(id_list)
['Qr41mwb-oQk', 'm LfH48sTmY', 'LBukoM3CLic', 'SY4P175BJPQ', 'mL00hNBxTzU']
def getCount(video id):
   api_key = 'AIzaSyDWf_scubd7aDcx_lVcdf7aGFepzwyKSKI'
   url = 'https://www.googleapis.com/youtube/v3/videos?id='+video_id+'&key='+api_key+'&part=id,statistics'
   response info=requests.get(url).json()
   # Contains all comments (both top-level comments and replies to those comments).
   all comments = []
   # print(response_info)
   # Get the total (sum) of comments the video has:
   for comment_count in response_info['items']:
      total = int(comment count['statistics']['commentCount'])
   # # Show the total amount of comments for the given video:
   print("Total comments for (" + video id + "): " + str(total))
for id in id_list:
   getCount(id)
        Total comments for (Qr41mwb-oQk): 43
        Total comments for (m_LfH48sTmY): 97
        Total comments for (LBukoM3CLic): 1580
        Total comments for (SY4P175BJPQ): 1530
        Total comments for (mL00hNBxTzU): 22
def getAllTopLevelCommentReplies(topCommentId, token):
   for indx, reply in enumerate(replies_response['items']):
      all comments.append(reply['snippet']['textDisplay'])
   if "nextPageToken" in replies response:
      return getAllTopLevelCommenTReplies(topCommentId, replies response['nextPageToken'])
   else:
      return []
def get_comments(youtube, video_id, token):
   global all comments
   totalReplyCount = 0
   token_reply = None
   if (len(token.strip()) == 0):
      all comments = []
   if (token == ''):
      video response=youtube.commentThreads().list(part='snippet',maxResults=100,videoId=video id,order='relevance').execute()
   else:
      video\_response=youtube.commentThreads().list(part='snippet', maxResults=100, videoId=video\_id, order='relevance', pageToken=token=token=token=token=token=token=token=token=token=token=token=token=token=token=token=token=token=token=token=token=token=token=token=token=token=token=token=token=token=token=token=token=token=token=token=token=token=token=token=token=token=token=token=token=token=token=token=token=token=token=token=token=token=token=token=token=token=token=token=token=token=token=token=token=token=token=token=token=token=token=token=token=token=token=token=token=token=token=token=token=token=token=token=token=token=token=token=token=token=token=token=token=token=token=token=token=token=token=token=token=token=token=token=token=token=token=token=token=token=token=token=token=token=token=token=token=token=token=token=token=token=token=token=token=token=token=token=token=token=token=token=token=token=token=token=token=token=token=token=token=token=token=token=token=token=token=token=token=token=token=token=token=token=token=token=token=token=token=token=token=token=token=token=token=token=token=token=token=token=token=token=token=token=token=token=token=token=token=token=token=token=token=token=token=token=token=token=token=token=token=token=token=token=token=token=token=token=token=token=token=token=token=token=token=token=token=token=token=token=token=token=token=token=token=token=token=token=token=token=token=token=token=token=token=token=token=token=token=token=token=token=token=token=token=token=token=token=token=token=token=token=token=token=token=token=token=token=token=token=token=token=token=token=token=token=token=token=token=token=token=token=token=token=token=token=token=token=token=token=token=token=token=token=token=token=token=token=token=token=token=token=token=token=token=token=token=token=token=token=token=token=token=token=token=token=token=token=token=token=token=token=token=token=token=token=token=token=token=token=token=token=token=token=token=token=token=token=token=token=token=
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# Loop comments from the video:
  for indx, item in enumerate(video response['items']):
   # Append coments:
   all comments.append("COMMENT WITH " + str(item['snippet']['totalReplyCount']) + " replies: " + item['snippet']['topLevelCc
   # Get total reply count:
   totalReplyCount = item['snippet']['totalReplyCount']
   # If the comment has replies, get them:
   if (totalReplyCount > 0):
      # Get replies - first batch:
     replies response=youtube.comments().list(part='snippet',maxResults=100,parentId=item['id']).execute()
     for indx, reply in enumerate(replies_response['items']):
       # Append the replies to the main array:
       all comments.append((" "*2) + "=>FIRST CALLBACK REPLY: " + reply['snippet']['textDisplay'])
     # If the reply has a token for get more replies, loop those replies
      # and add those replies to the main array:
     while "nextPageToken" in replies_response:
       token reply = replies response['nextPageToken']
       replies response=youtube.comments().list(part='snippet',maxResults=100,parentId=item['id'],pageToken=token reply).exec
       for indx, reply in enumerate(replies_response['items']):
         all comments.append((" "*4) + "==>WHILE GETTING REPLIES: " + reply['snippet']['textDisplay'])
  # Check if the video_response has more comments:
  if "nextPageToken" in video_response:
   return get comments(youtube, video id, video response['nextPageToken'])
   # Remove empty elements added to the list "due to the return in both functions":
   all_comments = [x \text{ for } x \text{ in all_comments if } len(x) > 0]
   print("Fin")
   return []
all comments=[]
gtyReplies = 0
qtyMainComments = 0
hmap = \{\}
youtube = build('youtube', 'v3',developerKey='AIzaSyDWf scubd7aDcx lVcdf7aGFepzwyKSKI')
for id in id_list:
 comments = get_comments(youtube,id,'')
 print(len(all comments))
 hmap[id] = all comments
# comments = get comments(youtube, "mL00hNBxTzU", '')
# print(len(all comments))
# Show results:
# print("All total comments obtained: " + str(len(all comments)))
print(hmap.keys())
    Fin
    38
    Fin
    8.0
    Fin
    1516
    Fin
    1128
    dict keys(['Qr41mwb-oQk', 'm LfH48sTmY', 'LBukoM3CLic', 'SY4Pl75BJPQ', 'mL00hNBxTzU'])
print(hmap.keys())
# comment_df = pd.DataFrame(hmap[0])
# # print(hmap["Qr41mwb-oQk"])
# comment df.head()
for i,key in enumerate(hmap.keys()):
   print(f"Video {i} Comments: \n")
   print(f"{hmap[key]} \n")
    dict_keys(['Qr41mwb-oQk', 'm_LfH48sTmY', 'LBukoM3CLic', 'SY4P175BJPQ', 'mL00hNBxTzU'])
    ['COMMENT WITH 0 replies: You are truly inspirational to many 💝 💝 💝 ', 'COMMENT WITH 1 replies: He gives so much hope
    Video 1 Comments:
    Video 2 Comments:
    ['COMMENT WITH 496 replies: What's your all-time favorite Air Max sneaker?', ' =>FIRST CALLBACK REPLY: air max plus
    Video 3 Comments:
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['COMMENT WITH 18 replies: Yes level the playing field for Woman. It's time to make sure Men Can dominate Woman's sports' Video 4 Comments:

['COMMENT WITH 0 replies: Really cool, love the vision and idea behind this. Hopefully more people get on board with thes

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