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Kompensasi

Scraping data demografi viewer/komentar youtube menggunakan API (akun developer).

Source Code

```
from googleapiclient.discovery import build
import requests
import json
from datetime import datetime
import urllib.request
URL = "https://www.googleapis.com/youtube/v3/commentThreads"
API KEY = "AIzaSyDS33GM81iifJIxSbvKNvkXWQkj7LpS6r4"
VIDEO ID = "Qy9JkVBlWBI"
URL CHANNEL= "https://www.googleapis.com/youtube/v3/channels"
# channel youtube
url channel =
f"https://www.googleapis.com/youtube/v3/videos?part=snippet&id={VIDEO I
D}&key={API KEY}"
json url = urllib.request.urlopen(url channel)
data = json.loads(json url.read())
video desc = []
desc video = data["items"][0]["snippet"]["description"]
judul video = data["items"][0]["snippet"]["title"]
video published at = data["items"][0]["snippet"]["publishedAt"]
video desc.append(
        "Deskripsi": desc video,
        "Published at": video published at
```

```
response =
requests.get(f"{URL}?key={API KEY}&videoId={VIDEO ID}&part=snippet")
response json = response.json()
youtube = build('youtube', 'v3', developerKey = API KEY)
comments = []
while True:
   for item in response json["items"]:
       author =
item["snippet"]["topLevelComment"]["snippet"]["authorDisplayName"]
item["snippet"]["topLevelComment"]["snippet"]["textOriginal"]
        published at =
item["snippet"]["topLevelComment"]["snippet"]["publishedAt"]
item["snippet"]["topLevelComment"]["snippet"]["likeCount"]
        totalReply = item["snippet"]["totalReplyCount"]
       video id = item["snippet"]["videoId"]
        comments.append({
            "author": author,
            "published at": published at,
            "likes": likes,
            "reply comment": totalReply,
            "id video": video id
       print(f"collecting from: {author}")
       if totalReply > 0 :
            parent = item["snippet"]["topLevelComment"]["id"]
            data2 = youtube.comments().list(part='snippet',
maxResults='100', parentId=parent, textFormat='plainText').execute()
            for i in data2["items"]:
                name = i["snippet"]["authorDisplayName"]
                comment = i["snippet"]["textDisplay"]
                published at = i["snippet"]['publishedAt']
                likes = i["snippet"]['likeCount']
```

```
comments.append(
                        "published at": published at,
                        "likes": likes,
    if "nextPageToken" in response_json:
       page token = response json["nextPageToken"]
        response =
requests.get(f"{URL}?key={API KEY}&videoId={VIDEO_ID}&part=snippet&page
Token={page token}")
        response json = response.json()
with open('hasilScraping.json', 'w') as f :
    json.dump(comments, f)
with open('InformasiVideo.json', 'w') as f :
    json.dump(video desc, f)
print(f"\n\n\ncomments:\n{comments}")
print(f"count comment: {len(comments)}")
print("finished.")
```

Output Hasil Scraping (file JSON)

Hasil scraping komentar dari suatu video youtube

```
"author": "Windah Basudara",
"comment": "Akhirnya aku menemukan asset File The Yummer guys! link videonya disini: https://youtu.be/K90vhpyGBB4",
"published_at": "2022-12-26103:56:23Z",
"likes": 82,
"author": "Farhan",
"comment": "Siap bang",
"published_at": "2022-12-26106:11:002",
"likes": 0,
"id_video": "dshFLX4D504"

},

"author": "uya wibowo",
"comment": "Masut nya kucinya di letakan bawah kaleng",
"published_at": "2022-12-26105:56:002",
"likes": 0,
"id_video": "4bhFLX4D504"

},

"author": "Glucky Fernando Lud83dJuddfff. Dasar anak tidak kenal tuhanya sendiri",
"published_at": "2022-12-26105:12:48Z",
"likes": 0,
"id_video": "4bhFLX4D504"

},

"author": "Lorenzo Jorge \u2022 2 tahun yang lalu",
"comment": "Glucky Fernando Lud83dJuddfff. Dasar anak tidak kenal tuhanya sendiri",
"published_at": "2022-12-26105:12:48Z",
"likes": 0,
"id_video": "4bhFLX4D504"

},

"author": "Lgyy",
"comment": "On no kripi",
"published_at": "2022-12-26105:11:45Z",
"likes": 0,
"id_video": "4bhFLX4D504"

},

"author": "Lgyy",
"comment": "On no kripi",
"published_at": "2022-12-26105:11:45Z",
"likes": 0,
"id_video": "4bhFLX4D504"
```

• Hasil scraping informasi video youtube