Media Insights

Darren Colby Jessup Jong

Entry Point

Bash File ./automate.sh ./slow_automate.sh

Makefile

"make" or "make everything"

"make data/comment_data.json"

"make data/clean_comment_data.json"

"make data/transcript data.json"

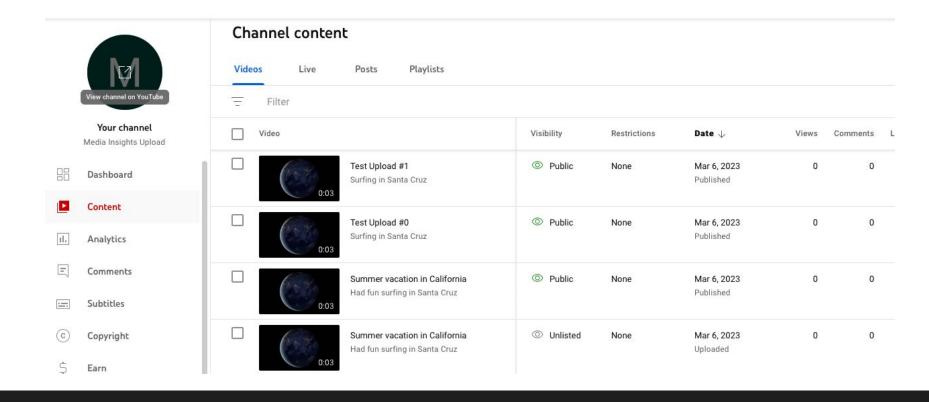
"make data/preprocessed_comments.json"

Video Upload Automation

```
python upload_video.py --file="videos/test1.mov"
```

- --title="Summer vacation in California"
- --description="Had fun surfing in Santa Cruz"
- --keywords="surfing,Santa Cruz"
- --category="22"
- --privacyStatus="public"

```
upload
client_secrets.json
client_.py
main_.py
upload.sh
upload_video.py
upload_video.py
videos
test1.mov
```



Authentication successful.
Uploading file...
Video id 'kLLB9trfxic' was successfully uploaded.

Web Scraping: Transcripts

YouTube Transcript/Subtitle API (including automatically generated subtitles and subtitle translations)

```
Donate PayPal build passing coverage 100% license MIT pypi v0.5.0 python 3.5 | 3.6 | 3.7 | 3.8
```

transcript_data.json

```
scraping
clean_comments.py
comments.py
init_.py
main_.py
transcripts.py
```

```
[["z-d0foxSkFU", "2mdAgnF0z0U", "Xo4txCMetIs", "eN0sAYQ3_NM", "crH_fqwKJuk"], [{"text": "buddy and some green beans", "start": 1.04, "duration": 3.9}, {"text": "[Music]", "start": 5.66, "duration": 7.48}, {"text": "that's gotta be 50 plus pounds of fat or", "start": 15.8 "duration": 6.72}, {"text": "no I did not just", "start": 23.64, "duration": 7.5}, {"text": [Music]", "start": 25.61, "duration": 7.589}, {"text": "good", "start": 31.14, "duration": 059}, {"text": "[Music]", "start": 40.23, "duration": 3.07}, {"text": "did you get it", "start": 44.879, "duration": 2.601}, {"text": "I'm glad you go for a ride", "start": 49.86, "duration": 3.98}, {"text": "[Music]", "start": 64.379, "duration": 5.721}, {"text": "because there's no room", "start": 66.26, "duration": 3.84}, {"text": "oh", "start": 70.86 "duration": 2.6}, {"text": "I got the little girl", "start": 74.939, "duration": 3.261}, {"text": "this way", "start": 80.7, "duration": 3.14}, {"text": "that's my damn dog that's
```

Web Scraping: Comments

```
api_key = os.environ['API_KEY']
url = f"https://www.googleapis.com/youtube/v3/commentThrea
response = requests.get(url).json()
return response
```

```
"kind": "youtube#commentThreadListResponse",
"etag": "wJNSgrBIXjnOHeyCeFgHs1NhKx0",
"nextPageToken":
"OURTS19pMHV4U31FZW9fN01XdHRfa3A0dk5TMv03THJoTW5DVVFUcv12cDhrR2VsdUhX
TRNTzQ0aEtacDJJZ1g0dUhPVGZ6Xy1JeTl2Zw==",
"pageInfo": {"totalResults": 20, "resultsPerPage": 20},
"items": [
        "kind": "youtube#commentThread",
       "etag": "7rKQmJRl7Xcnb4C9jKGw06DUQu0",
        "id": "UgycG3LmbRzRx6FbQvx4AaABAg",
        "snippet": {
           "videoId": "w55xmZLWfBq",
           "topLevelComment": {
                "kind": "youtube#comment",
                "etag": "BS0JBLmSKA4fNgjy1_0Xu8wAzKo",
                "id": "UgycG3LmbRzRx6FbQvx4AaABAg",
                "snippet": {
                    "videoId": "w55xmZLWfBg",
                   "textDisplay": "Why would you call them litter
                   mates? It's their siblings, all of them,
                   whether they' re close or not, they' re al
                   blood related. Therefore, they' re siblings."
                   "textOriginal": "Why would you call them litter
                   mates? It's their siblings, all of them, whether
                   they're close or not, they're all blood related.
                   Therefore, they're siblings.",
```

```
"wS5xmzLWfBg": [

"Why would you call them litter mates? It's their siblings, all c
"2023-03-04T05:57:542",

"Thank you so much really god bless you \u2764\ufe0f\u2764\ufe0f\
"2023-03-02T11:33:47Z",

, ["Bless \u2764\ufe0f", "2023-03-01T20:35:35Z"],

"That\u2019s absolutely awesome. I smiled all of the way through.
"2023-03-01T14:33:12Z",

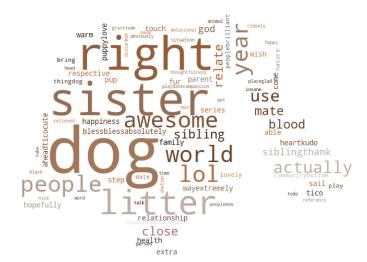
, [
"ALL extremely AWESOME people, keeping a fur family in touch with "2023-03-01T13:30:20Z",
],

[
"Kudos to Ernie's & Taco's pawrents for going that extra step for "2023-03-01T01:04:532",
],
```

Word Cloud



Frequency, shape and color



Process Transcripts and Comments

Pre-process transcript and comments

```
no_emojis = remove_emojis(text)
no_newline = re.sub(r'[\r\n\t]', '', no_emojis)
no\_bracket = re.sub(r" ?\([^)]+\)", "", no\_newline)
no_punct = re.sub(r'[^\w\s]', '', no_bracket)
no_extra_space = re.sub(r'\s+', ' ', no_punct)
lowercase = no_extra_space.strip().lower()
no\_digits = re.sub(r'[0-9]+', '', lowercase)
# Remove hyperlinks
no_links = re.sub(r'http\S+', '', no_digits)
no_links = re.sub(r"[!@#$]", '', no_links)
```

Spell checking, translation, lemmatization