Batch video2youtube Tool Tutorial

TA at

Online Education Development Office (OEDO)

Center for Innovative Teaching and Learning (CITL)

Tokyo Institute of Technology, Japan

Contents

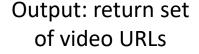
- Tool overview
- Register OAUTH 2.0 of YouTube API
- Files preparation
- Upload videos
- Upload transcript (subtitle)
- Upload thumbnail

Tool overview

Overview of this tool

Automated task

You Tube



https://youtu.be/JBX1FY6wLBs https://youtu.be/jAWhx7DEojk https://youtu.be/tS0ftXcGI https://youtu.be/tpFIqwnyjKQ https://youtu.be/LOIE8K4yyMU https://youtu.be/0p0L2x81zJs https://youtu.be/7kAnwkrQF2c https://youtu.be/jitjNFtQtfM https://youtu.be/kwyhFKAbPDI https://youtu.be/pdShzLKUWlA https://youtu.be/JDz8jWpSxcM https://youtu.be/K0DwG3sageo

edX lecture videos

































transcripts



1-JBX1FY6

wLBs.en.srt

















Gl.en.srt









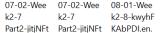




k2-7











A≡

Thumbnail



6-6.png

22.6 MB

6-2.png



















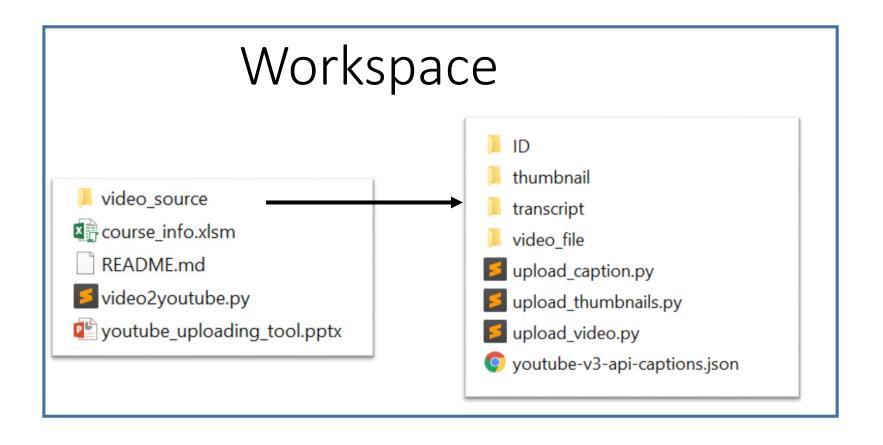
Lists of uploading contents - Videos, transcripts, thumbnail

- Video info (name, description, etc.)

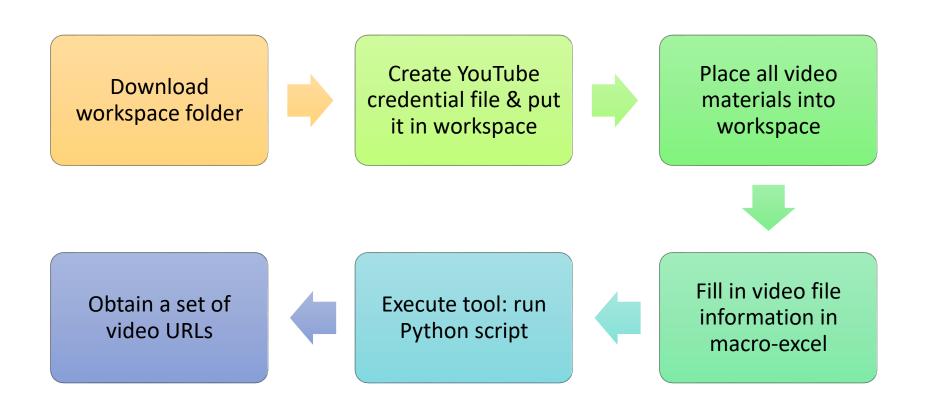
> Tool's output will be used to create video



- The tool's workspace is available on Github
- https://github.com/KeNopphon/edx-YouTubevideo-uploading-tool



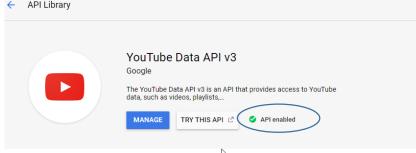
Flowchart



Register OAUTH 2.0 of YouTube API

YouTube API OAUTH 2.0

- Follow the link below for obtaining authorization credential
 - https://developers.google.com/youtube/registering_an application
- After create your credential (OAUTH 2.0 client IDs)
 - Enable Youtube Data API v3



YouTube API OAUTH 2.0

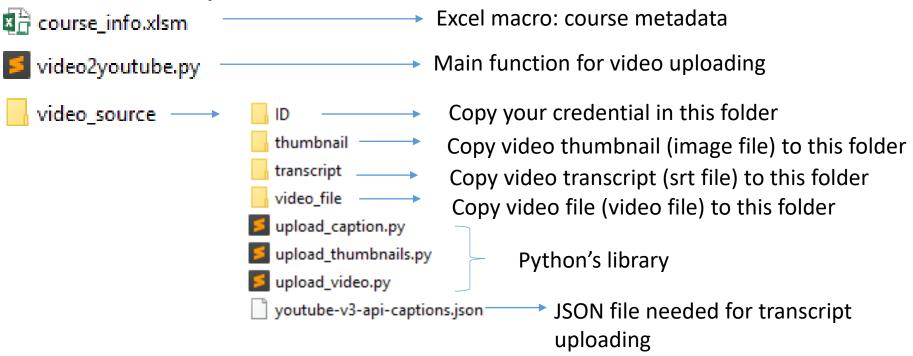
- Download credential file
 - json file
 - Filename: client_secret_<code>.apps.googleusercontent.com.json

<code> = sequence of alphabet and number represents YouTube account

Needed for batch uploading

Files preparation

Workspace



 For those who are using 'course builder' tool, you can use option 3 for video uploading

Course_info.xlsm

Sheets

- coursestructure
- text
- video
- problem
- upload_list
- caption_list
- thumbnail_list
- metada

Course builder

Batch video2Youtube upload

leave it there, no need to consider

Upload_list sheet

before

id	file_dir	filename	title	description	keyword	privacy_status	
ndex		video	Name of video	Vidoo	Kovavord		
unique)	filename	Name of video	Video	Keyword	For rer	nark
				description	(Optional)	(Option	الدم
	Directory of			(Optional)		(Optioi	iaij
	video file			(Optional)			

after

id	file_dir	filename	title	description	keyword	privacy_status	
1	video_file	Week6_Sub_01.mp4	ETHICSJ1_2017_UNIT6_1			unlisted	
2	video_file	Week6_Sub_02.mp4	ETHICSJ1_2017_UNIT6_2			unlisted	
3	video_file	Week6_Sub_03.mp4	ETHICSJ1_2017_UNIT6_3			unlisted	

Directory inside transcript folder

Caption_list sheet

before

id	file_dir	filename	lang	name	video_id	remark
Index		¢		lame of		
(uniqu	e)	srt filename		ranscrip		For remark
	Director	rv	Langua	ige		(Optional)
	of srt fil	, ·	code			

https://www.loc.gov/standards/iso639-2/php/code_list.php

after

id		filename	lang	name	video_id	remark
	transcript		en	ENG		
	transcript	No_01_Week6-01.srt	ja	JP	https://youtu.be/InEcGMsyRa4	ETHICSJ1_2017_UNIT6_1
3	transcript		en	ENG		
4	transcript	No_02_Week6-02.srt	ja	JP	https://youtu.be/0SuQhiN kwk	ETHICSJ1_2017_UNIT6_2
	transcript		en	ENG		
(transcript	No_03_Week6-03.srt	ja	JP	https://youtu.be/OvxPH7sIkW8	ETHICSJ1_2017_UNIT6_3

thumbnail_list sheet

before

	id	file_dir	filename	video_id	remark	
Index (unique)		Directory of srt file	image filename	YouTube link	For remark (Optional)	
,,	inque)					

after

id	file_dir	filename	video_id	remark
1	thumbnail	6-1.png	https://youtu.be/InEcGMsyRa4	ETHICSJ1_2017_UNIT6_1
2	thumbnail	6-2.png	https://youtu.be/0SuQhiN kwk	ETHICSJ1_2017_UNIT6_2
3	thumbnail	6-3.png	https://youtu.be/OvxPH7slkW8	ETHICSJ1_2017_UNIT6_3

Upload video

video2youtub.py (video part)

- Python 3
- Test environment: Windows 10

- Library
 - Google API Client Libraries
 - https://developers.google.com/api-clientlibrary/python/start/installation
- Dependencies
 - xlrd, xlwt, http.client, httplib2

video2youtub.py (video part)

Run in terminal

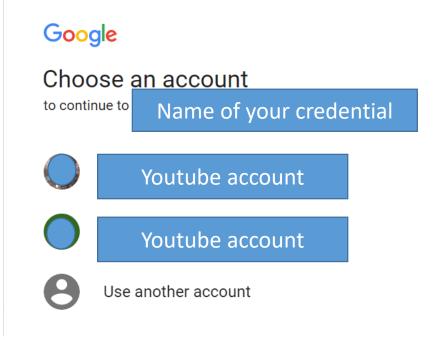
python video2youtube.py

Select tasks

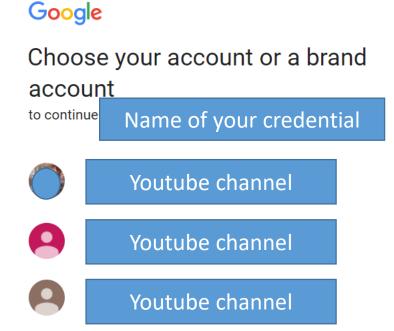
enter [1-3] 1.Upload video 2.Upload Caption 3.Upload thumbnail

Type 1 and hit enter

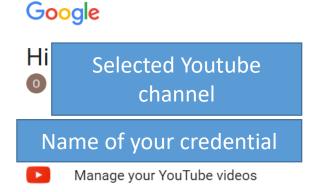
- Pop-up browser
 - Ask for sign-in to YouTube account



- Pop-up browser
 - Then, choosing your Channel



- Pop-up browser
 - Then, ask permission to use API



Allow NPyoutubeupload to do this?

By clicking Allow, you allow this app to use your information in accordance to their terms of service and privacy policies. You can remove this or any other app connected to your account in My Account

CANCEL

ALLOW

JSON file for authentication is generated

- Youtube will not ask your permission again as long as this file exists in workspace
- If you want to access other Youtube account or channel, remove this file and run main script again



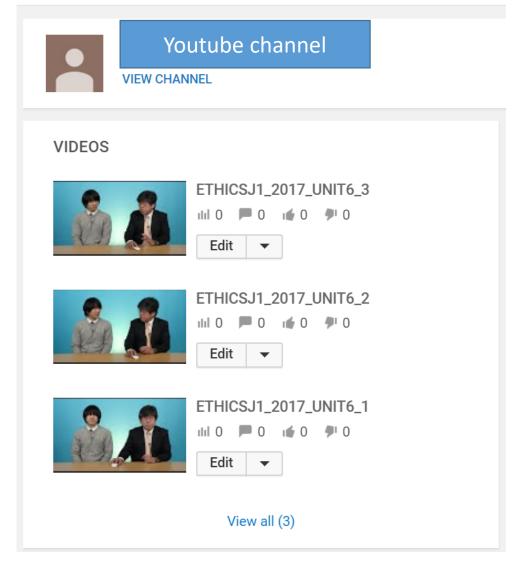
🌠 upload_video.py-oauth2.json

Videos are being uploaded

• List of YouTube video are in uploaded_video_link.txt

```
uploaded_video_link.txt - Notepad
File Edit Format View Help
2017-10-27 16:47:49 , ETHICSJ1_2017_UNIT6_1 , https://youtu.be/X9L3GdReECo
2017-10-27 16:50:51 , ETHICSJ1_2017_UNIT6_2 , https://youtu.be/vQ0heM2xeeE
2017-10-27 16:53:31 , ETHICSJ1_2017_UNIT6_3 , https://youtu.be/Qk3AWR8-yXU
```

 Videos in Youtube video dashboard



Upload transcript (subtitle)

Run in terminal

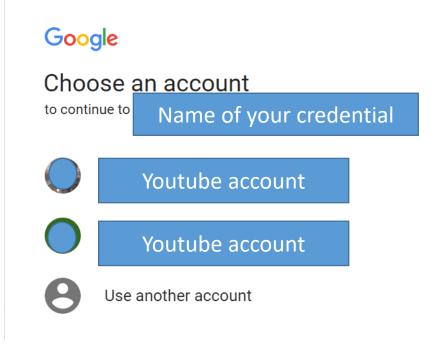
python video2youtube.py

Select tasks

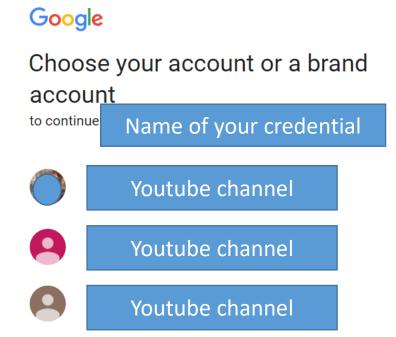
enter [1-3] 1.Upload video 2.Upload Caption 3.Upload thumbnail

Type 3 and hit enter

- Pop-up browser
 - Ask for sign-in to YouTube account



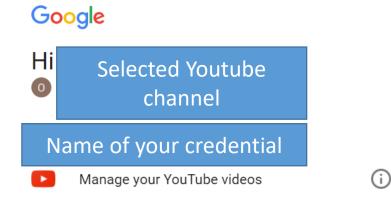
- Pop-up browser
 - Then, choosing your Channel



- Pop-up browser
 - Then, ask permission to use API

JSON file for authentication is generated

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Allow NPyoutubeupload to do this?

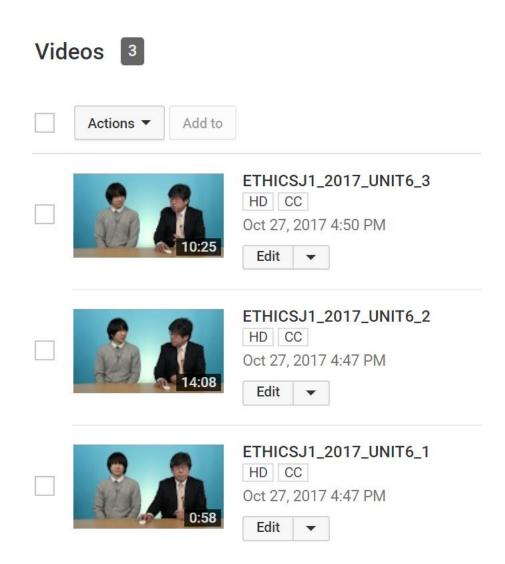
By clicking Allow, you allow this app to use your information in accordance to their terms of service and privacy policies. You can remove this or any other app connected to your account in My Account

CANCEL

ALLOW

transcripts are being uploaded

 Transcripts are placed in selected Youtube video (see CC icon)



Upload thumbnail

Run in terminal

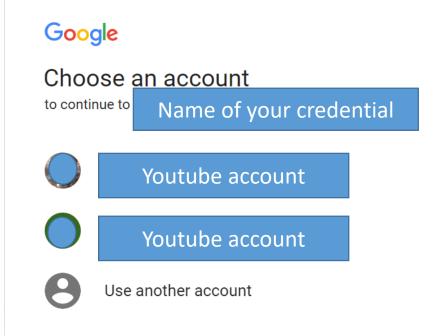
python video2youtube.py

Select tasks

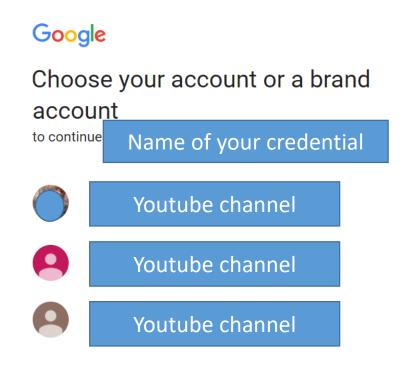
enter [1-3] 1.Upload video 2.Upload Caption 3.Upload thumbnail

Type 3 and hit enter

- Pop-up browser
 - Ask for sign-in to YouTube account



- Pop-up browser
 - Then, choosing your Channel



- Pop-up browser
 - Then, ask permission to use API

Google Hi Selected Youtube channel Name of your credential Manage your YouTube videos

Allow NPyoutubeupload to do this?

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CANCEL

ALLOW

JSON file for authentication is generated

- Youtube will not ask your permission again as long as this file exists in workspace
- If you want to access other Youtube account or channel, remove this file and run main script again

upload_thumbnails.py-oauth2.json

Videos are being uploaded

 Thumbnails are placed in selected Youtube video

