

PURPOSE: Focus is Google API, youtube in particular. This is summary of using cURL to obtain authorization_code and then proceed querying youtube.

USAGE: This is a markdown, md, file. All zsh code is treated as verbatim. To run the zsh, use the neovim terminal and then the short cut ,tl.

Once something is working convert to a zsh script file. But THIS document be NEAT summary.

- `~/Renviron` for secrets * Source: <https://developers.google.com/youtube/v3/guides/auth/installed-apps> * `zsh`, `'&'` is special. Use single quotes around it to avoid errors.

REF: <https://stackoverflow.com/questions/53357741/how-to-perform-oauth-2-0-using-the-curl-cli#53357742>et CLIENT_ID=Replace_with_your_Client_ID

```
auth_url=https://accounts.google.com/o/oauth2/v2/auth
token_url=https://oauth2.googleapis.com/token
base_url=https://www.googleapis.com/youtube/v3
uri_redirect=
# Per google docs, scopes are separated by whitespace
scope='https://www.googleapis.com/auth/youtube https://www.googleapis.com/auth/youtube.force
client_id=$(Rscript -e "cat(Sys.getenv('OAUTH2_ID'))")
```

```
echo \  
'https://accounts.google.com/o/oauth2/v2/auth?'\  
'client_id='$client_id'&redirect_uri=urn:ietf:wg:oauth:2.0:oob'\  
'&scope='$scope'&response_type=code'
```

We now have auth code. PURPOSE: HTTR2:: Given ONE video, return ALL Comments Authorization: Bearer [YOUR_ACCESS_TOKEN] Accept: application/json
(1APR2022)

Google's example, with loop for uri_redirect https://accounts.google.com/o/oauth2/v2/auth?scope=https%3A%2F%2Fwww.googleapis.com%2Fauth%2Fyoutube.readonly&response_type=code&state=security_token%3D138r5719ru3e1%26url%3Dhttps%3A%2F%2Foauth2.example.redirect_uri=http%3A//127.0.0.1%3A9004&client_id=client_id

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Request: appropriate query sent to:

GET https://www.googleapis.com/youtube/v3/commentThreads

From Explorer

GET https://youtube.googleapis.com/youtube/v3/playlists?part=snippet%2CcontentDetails&maxResults=5&min

HTTP/1.1

Authorization: Bearer [YOUR_ACCESS_TOKEN] Accept: application/json

same, but as Curl

```
curl
'https://youtube.googleapis.com/youtube/v3/playlists?part=snippet%2CcontentDetails&maxResults=5&min'
-header 'Authorization: Bearer [YOUR_ACCESS_TOKEN]'
-header 'Accept: application/json'
-compressed
```

From Google Playground

https://youtube.googleapis.com/youtube/v3/commentThreads?videoId=Mec9sw1cJk8&part=snippet,replies

###

```
LEGACY # =====
# # # from Windows # =====
CLIENT_SECRET=Replace_with_your_Client_Secret set SCOPE=https://www.googleapis.com/auth/clou
platform set ENDPOINT=https://accounts.google.com/o/oauth2/v2/auth
set URL="%ENDPOINT"?client_id=%CLIENT_ID%&response_type=code&scope=%SCOPE%&access_t
@REM start iexplore %URL% @REM start microsoft-edge:%URL% start
chrome %URL%
set /p AUTH_CODE="Enter Code displayed in browser:" # =====
```

translate to cURL

```
curl ^ -data client_id=%CLIENT_ID% ^ -data client_secret=%CLIENT_SECRET%
^ -data code=%AUTH_CODE% ^ -data redirect_uri=urn:ietf:wg:oauth:2.0:oob
^ -data grant_type=authorization_code ^ https://www.googleapis.com/oauth2/v4/token
```