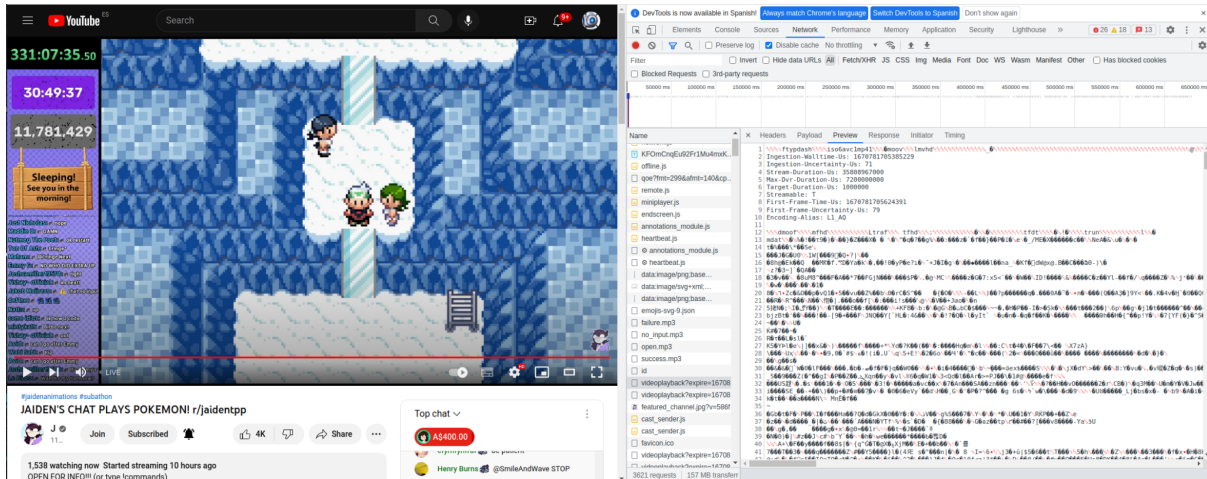
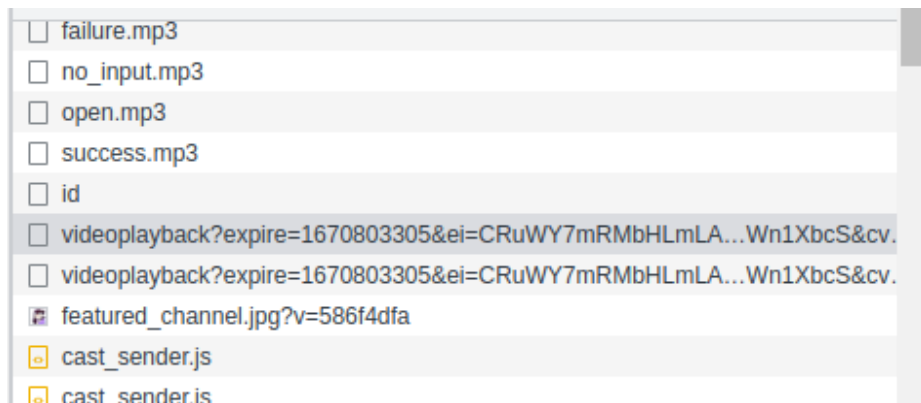


# Analizing a Youtube Stream

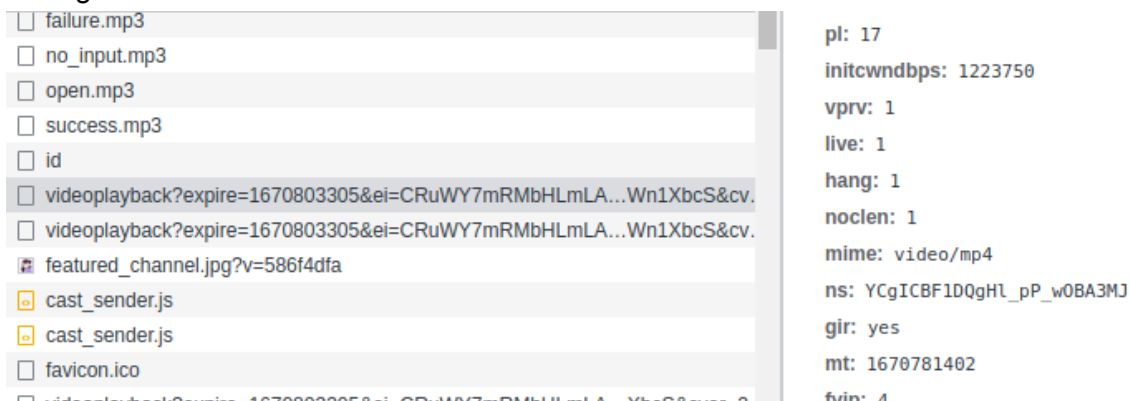
Fist, I started the capture, using the Google Chrome's developer tools, and i realized that there are 2 simultaneous streams; one for video, and one for audio.



As we can see, the packets come in pairs:



If we check the packages's payloads, we can see in hte mime the kind of data that they are carrng:



<input type="checkbox"/> id	mv: m
<input type="checkbox"/> videoplayback?expire=1670803305&ei=CRuWY7mRMbHLmLA...Wn1XbcS&cv.	mvi: 5
<input checked="" type="checkbox"/> videoplayback?expire=1670803305&ei=CRuWY7mRMbHLmLA...Wn1XbcS&cv.	pl: 17
<input checked="" type="checkbox"/> featured_channel.jpg?v=586f4dfa	initcwndbps: 1223750
<input checked="" type="checkbox"/> cast_sender.js	vprv: 1
<input checked="" type="checkbox"/> cast_sender.js	live: 1
<input type="checkbox"/> favicon.ico	hang: 1
<input type="checkbox"/> videoplayback?expire=1670803305&ei=CRuWY7mRMbHLmLA...XbcS&cver=2.	noclen: 1
<input type="checkbox"/> videoplayback?expire=1670803305&ei=CRuWY7mRMbHLmLA...bcS&cver=2.2	mime: audio/mp4
<input type="checkbox"/> videoplayback?expire=1670803305&ei=CRuWY7mRMbHLmLA...XbcS&cver=2.	ns: YCgICBF1DQgHl_pP_w0BA3M

Also, if we check the ftyp indicator on the video MPEG, we can see that they are running a MPEG-DASH stream.

```
☐ failure.mp3
☐ no_input.mp3
☐ open.mp3
☐ success.mp3
☐ id
☒ videoplayback?expire=1670803305&ei=CRuWY7mRmBHLmLA...Wn1XbcS&cv.
☐ videoplayback?expire=1670803305&ei=CRuWY7mRmBHLmLA...Wn1XbcS&cv.



```

When opening the video package with `ffprobe`, can verify this:

```
Input #0, mov,mp4,m4a,3gp,3g2,mj2, from 'vdeoplayback.mp4':
  Metadata:
    major_brand      : dash
    minor_version    : 0
    compatible_brands: iso6avc1mp41
  Duration: 09:49:54.97, start: 35393.967000, bitrate: 0 kb/s
  Stream #0:0[0x1](und): Video: h264 (Main) (avc1 / 0x31637661), yuv420p(tv, bt709, progressive), 1920x1080 [SAR 1:1 DAR 16:9], 0 kb/s, 60 fps, 60 tbr, 90k tbn (default)
  Metadata:
    handler_name     : ISO Media file produced by Google Inc.
    vendor_id        : [0][0][0][0]
```

While also using h264 yuv420p codec with a 1920x1080 resolution.