Edit video/audio with or without

https://github.com/scateu/tsv_edl.vim

Wang Kang
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Why?

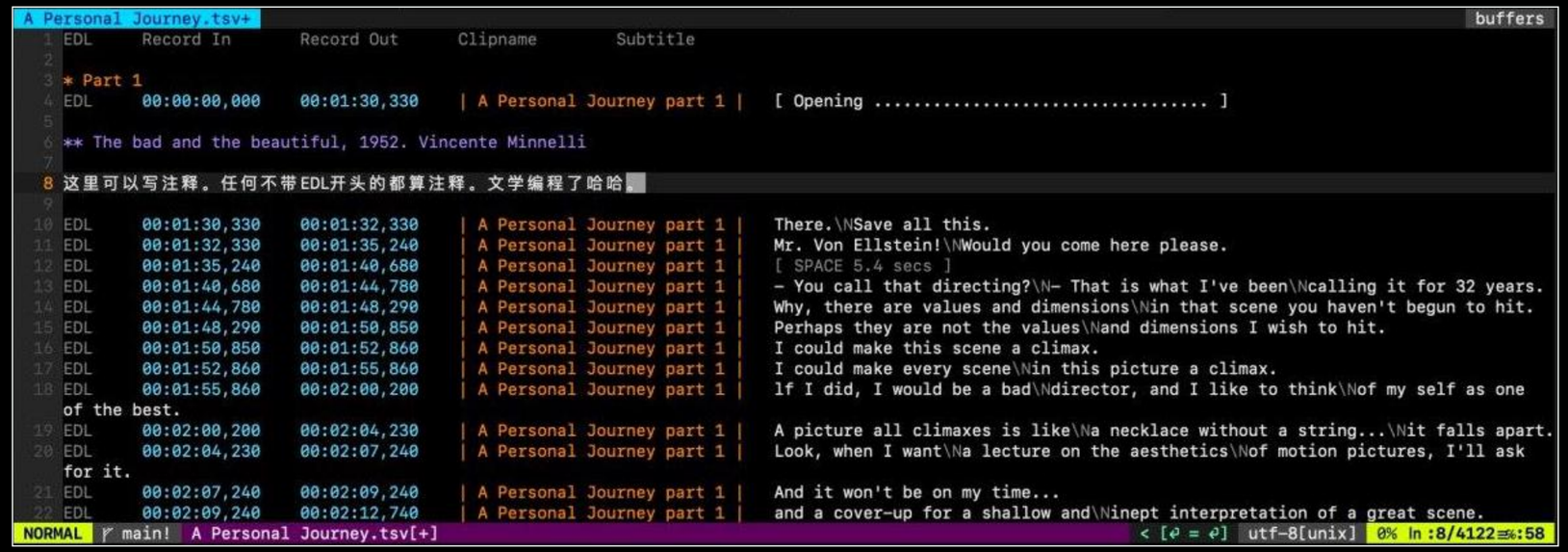
- I used to edit my own podcast with COTS DAW software. Regularly, 1 hour of footage takes 6 hours' editing just to remove space, filling words, mumbles.
- After that, I am exhausted and couldn't do any creative arrangement.
- It's nearly impossible to select quotes from different speaker in different time and combine into 1 package as a independent creator in spare time, without a team.

- I'll share my effort to take back control of video creating, editing, and note-taking, with or without Vim.
- During the last two years, I wrote myself a series of handy scripts. It works with or without Vim. I cut my podcast with it, and translated podcasts into captioned videos. It's highly efficient.

- Yes, there are commercial products like Descript, Adobe Podcast, AVID Media Composer on the market.
- But it's not open nor free.

- Basically I defined a file format. It's a spreadsheet in plain text, tsv.
- It can be converted to and back from srt subtitle.
- After that, you can remove it, shuffle it, combine it or repeat it.

```
EDL 00:00:01,000 00:10:01,422 | clipname | subtitles, comments, or description with AI
```



Edit video/audio with or without Vim

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Syntax

```
* Section 1

Any line starts without EDL is note.

** SubSection

EDL→00:00:01,000→00:00:05,000→|␣image␣|→subtitles….
EDL→00:00:01,000→00:10:01,422→|␣clipname␣|→[B]this is B-Roll
EDL→00:00:01,000→00:10:01,422→|␣clipname␣|→subtitles….
EDL→00:00:01,000→00:10:01,422→|␣clipname␣|→subtitles and\Nnewline

## Subsection

Sharp, asterisk are both recognized as header, and can be folded with TAB key.
```

Why ... | clipname |

```
EDL 00:00:01,000 00:10:01,422 | clipname | subtitles, comments, or description with AI
```

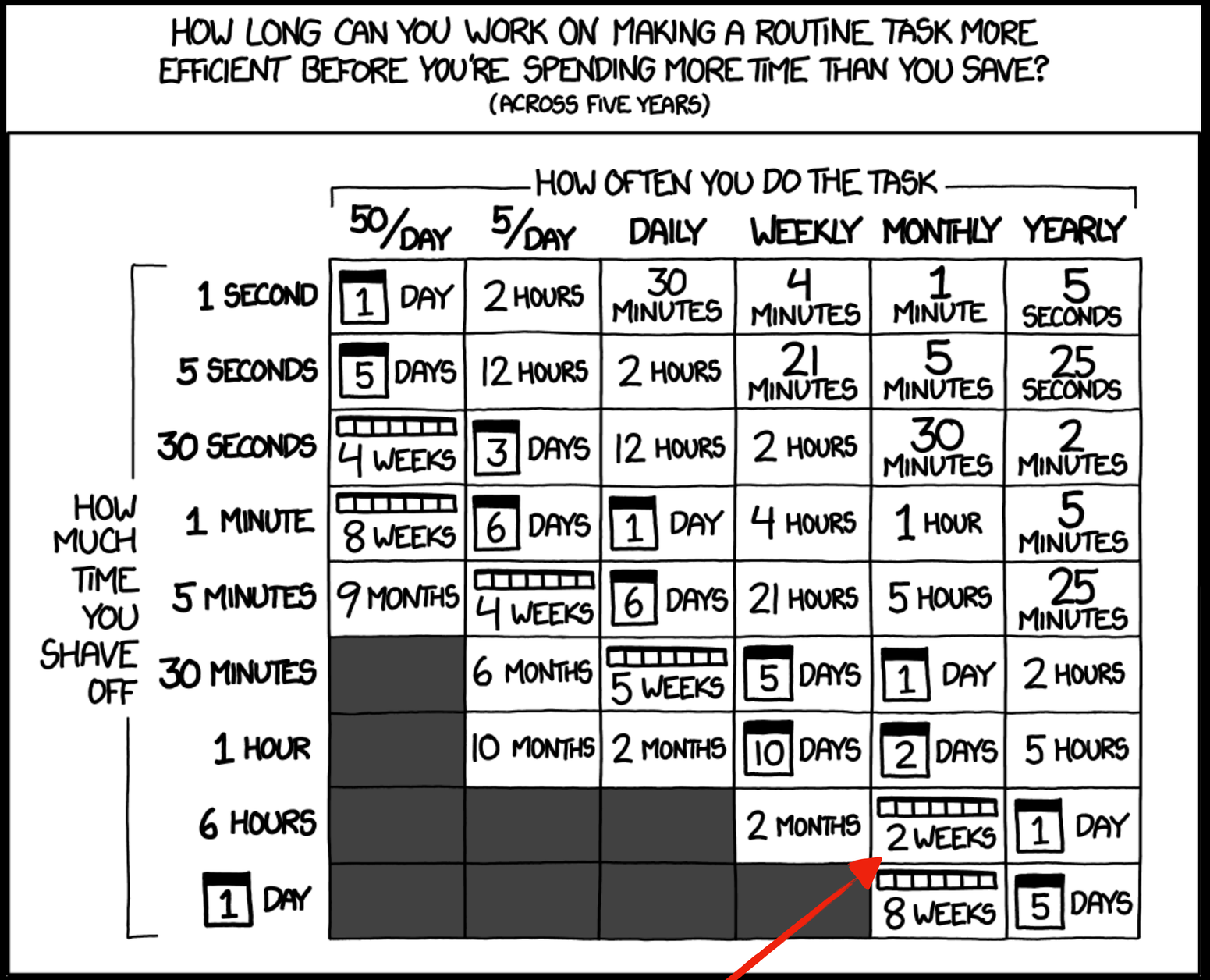
Space / Tab may be destroyed while pasting.
Just paste lines to your collaborator.

Collaborate via Email / IM / Ham radio / Telegraph!

Performance

Podcast Editing: 6 hours → 1.5 hours[1]

[1] while singing a song and eating dinner



https://xkcd.com/1205/

To prove the simplicity, one can convert srt to tsv in a single line of bash command:

```
cat some.srt | sed -n -r '1{/^$/n;};/^[0-9]+$/{n; s/ --> /\t/; s/$/\t| _CLIPNAME_ |\t/; N; s/\n//; h; d;}; /^$/! { H; $!d;}; x; s/\n/\\N/g; s/^/EDL\t/;p' > some.tsv
```

```
EDL 00:00:01,000 00:10:01,422 | clipname | subtitles, maybe description with AI
```

- EDL stands for 'editorial decision list'.
  - Those three letters are very useful with 'grep'.
  - Yes. You can **grep** it!
    - For example, the following line invokes ffmpeg and generates a video from **multiple** footages.

```
$ cat recording_1990.tsv recording_2023.tsv | grep -c 3 Linux | tsv2roughcut
```

- Each line without 'EDL' in the beginning, will be ignored.
  - So you get comments now.
- The clipname can be audio, video or still picture.

Bring UNIX plain-text power to video!

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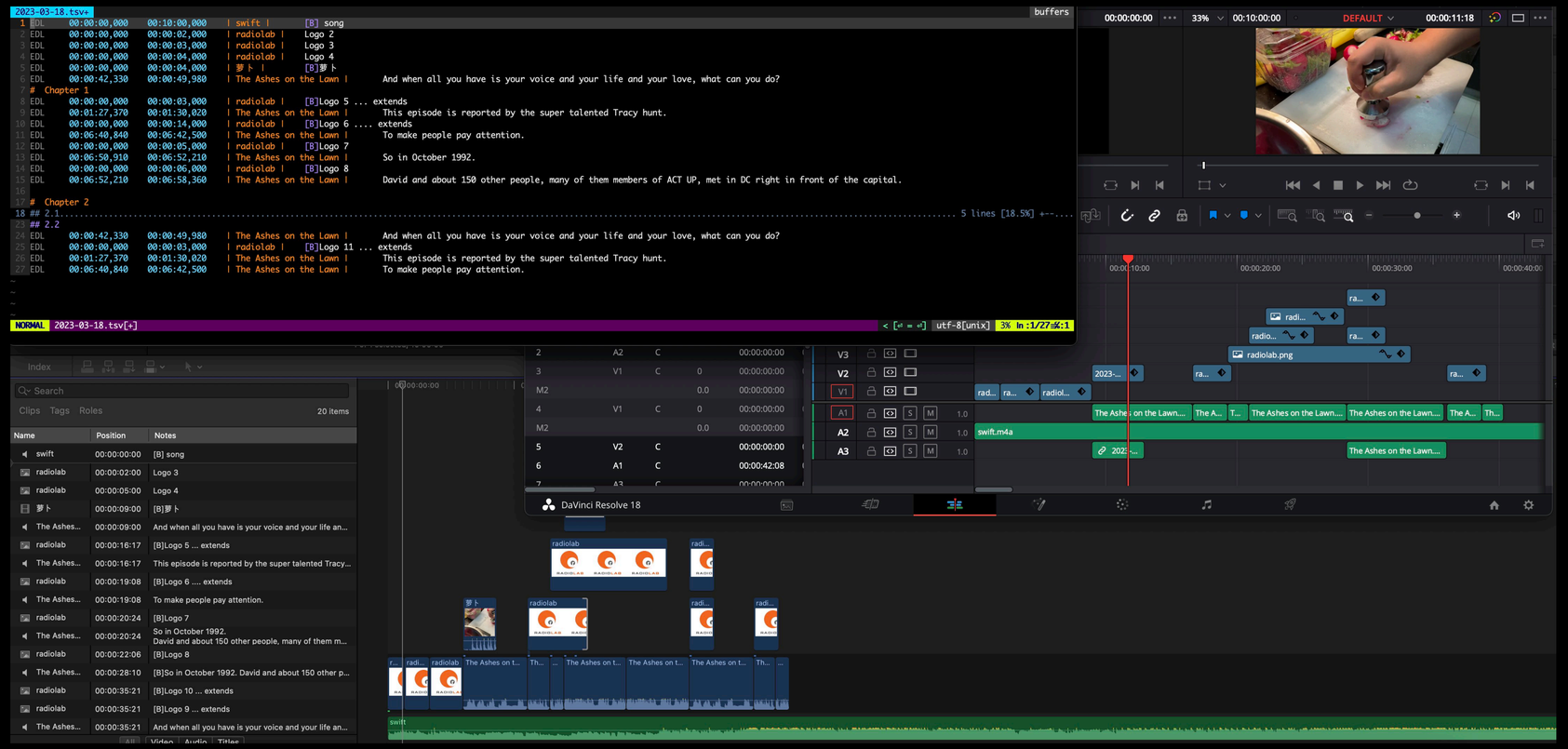
Export to big boy toy

- You may also pipe it into **`tsv2fcpxml`**, and import into professional editing software for fine-tuning, or delegate to professional editors.

- So you don't have to work late side by side with them.



Edit video/audio with or without Vim

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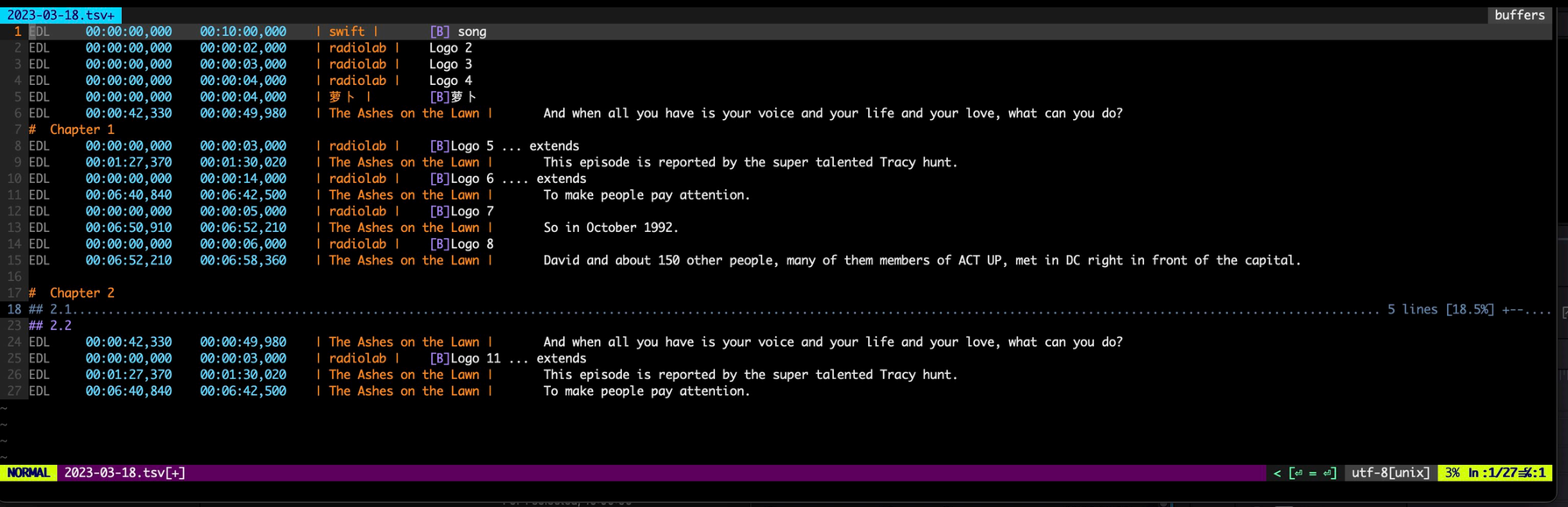
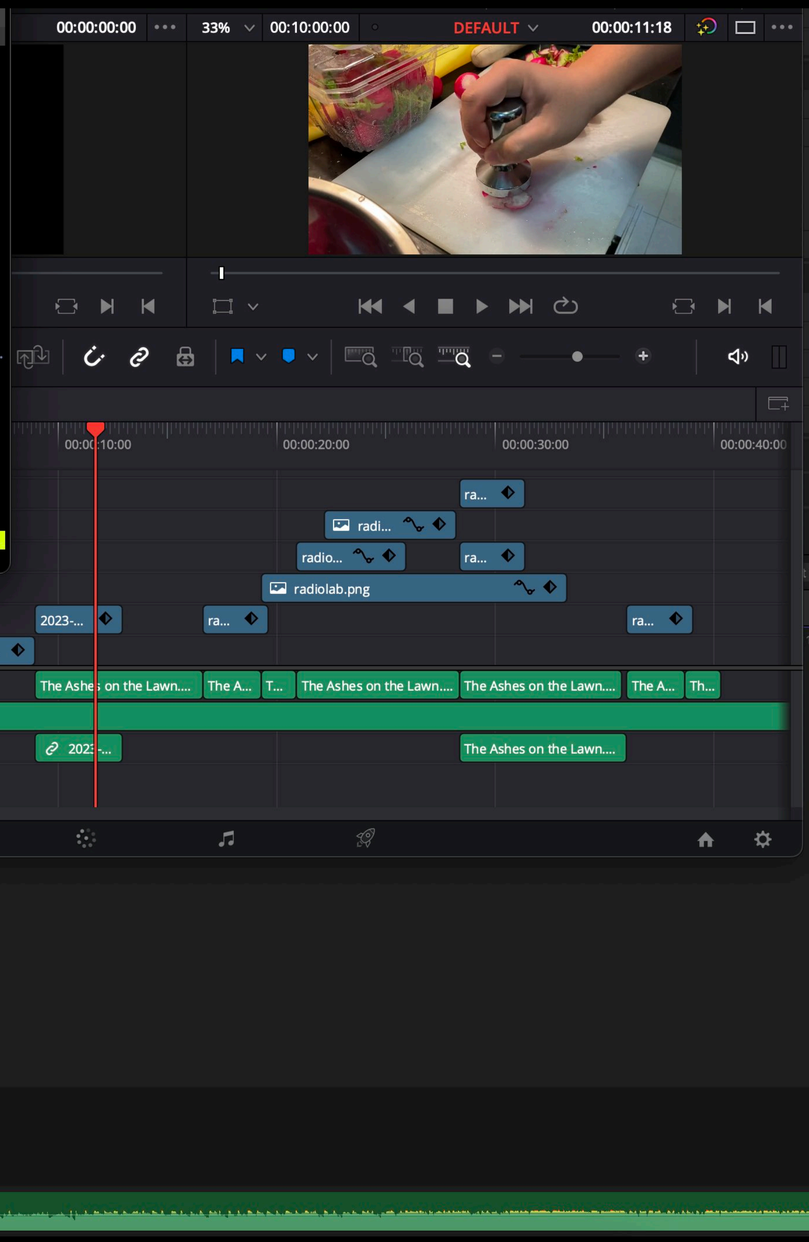
You may add [B] as B-roll at the head of the subtitle, to create a BBC style voice over video.



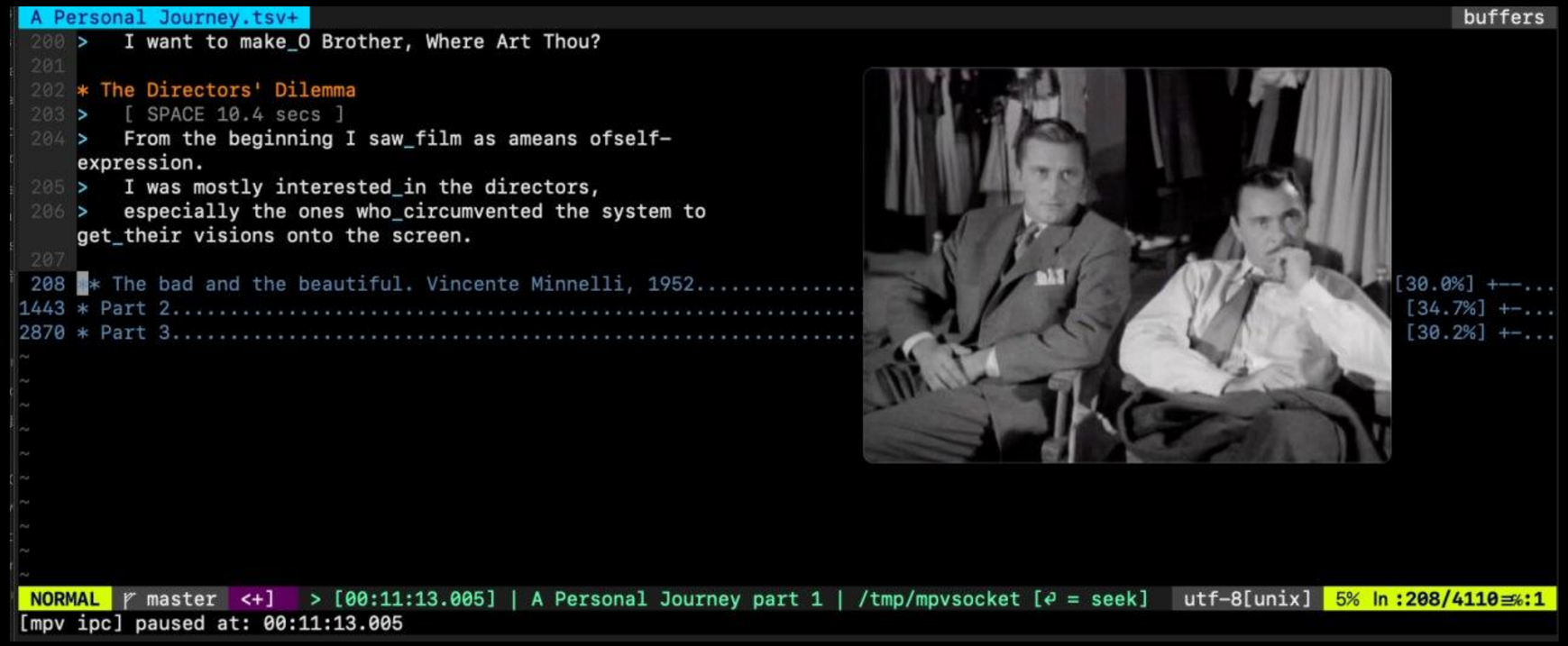


Edit video/audio with or without Vim

https://github.com/scateu/tsv_edl.vim

Integrate with mpv player via UNIX socket

- Furthermore, with this plugin in Vim, you can preview video/audio with mpv player, cut/join lines, add comments and fold/unfold with Markdown/Org mode style headers.



Edit video/audio with or without Vim

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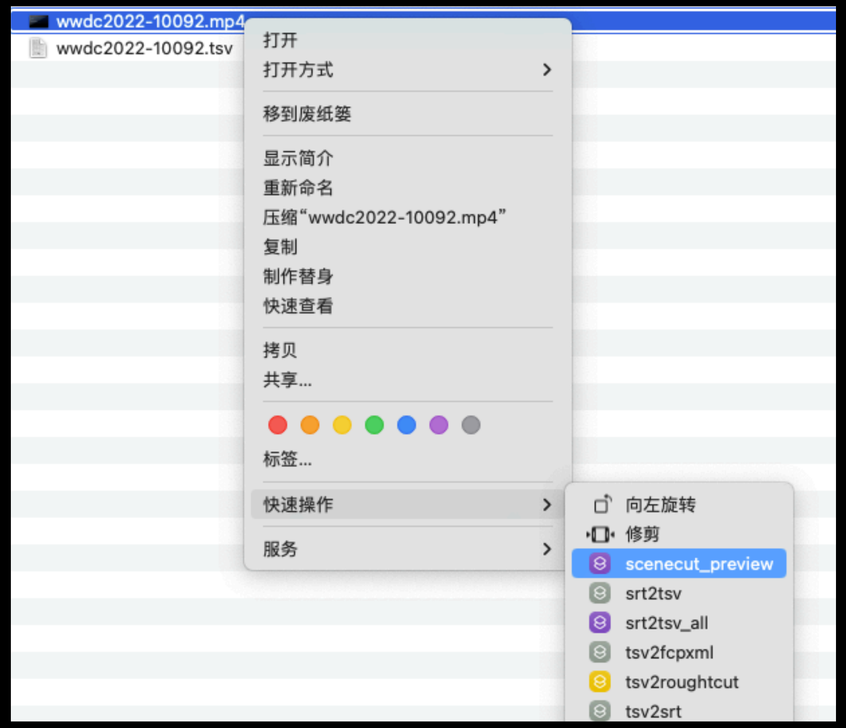
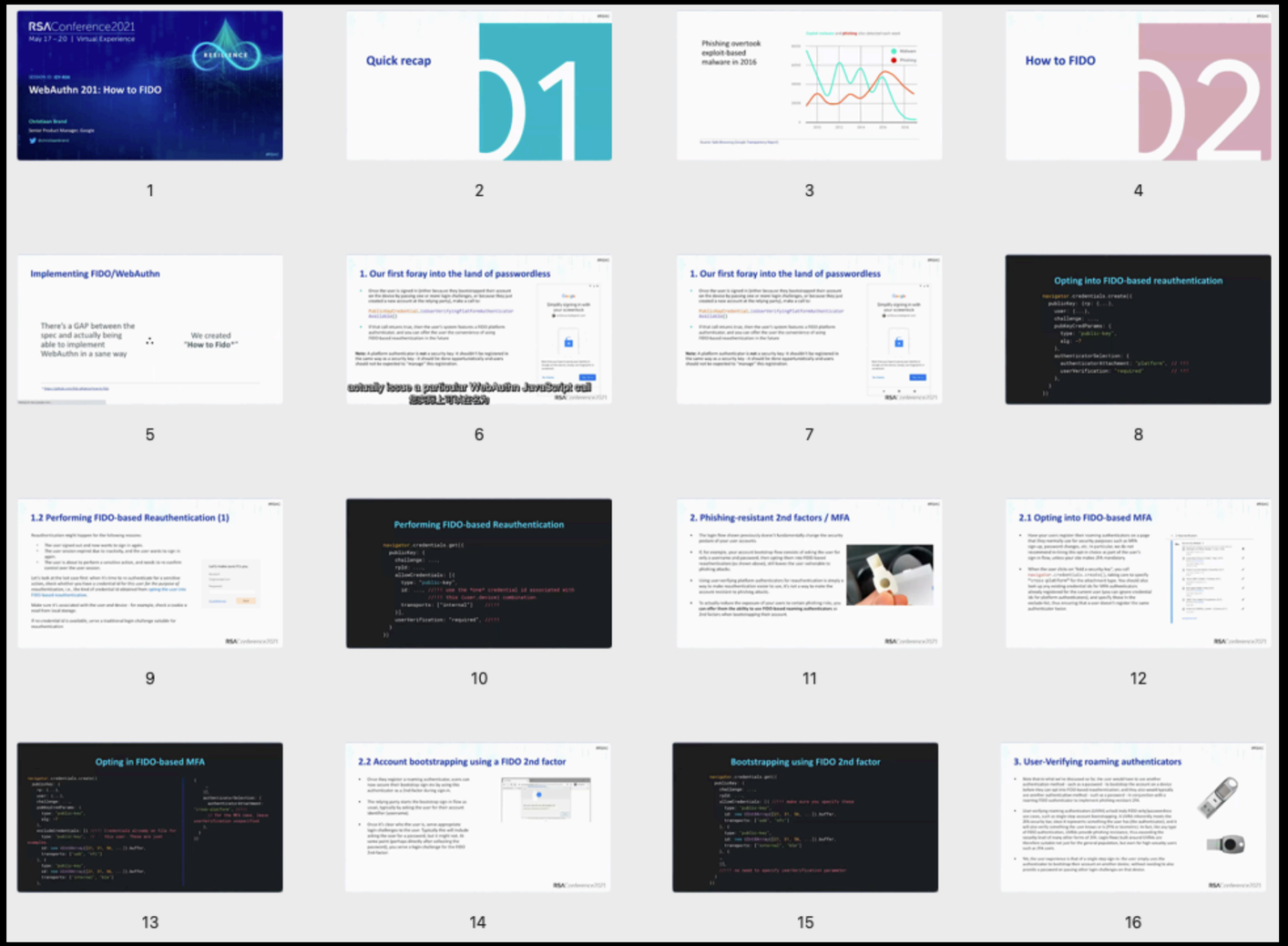
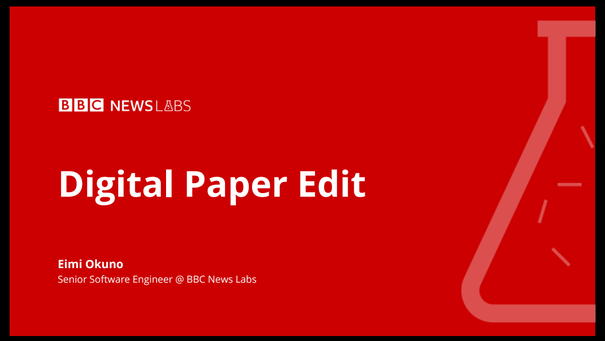
As Media Disassembler `scenecut_preview`



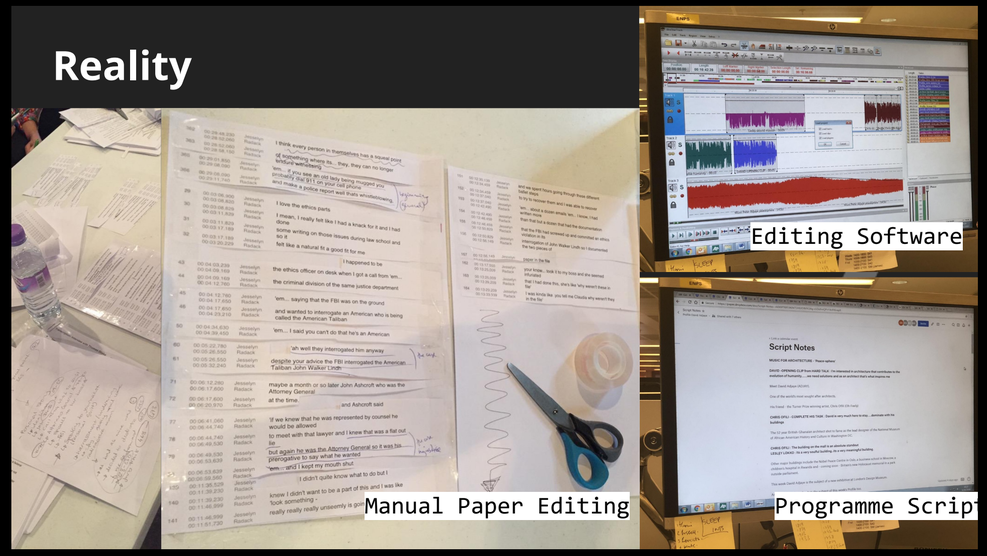


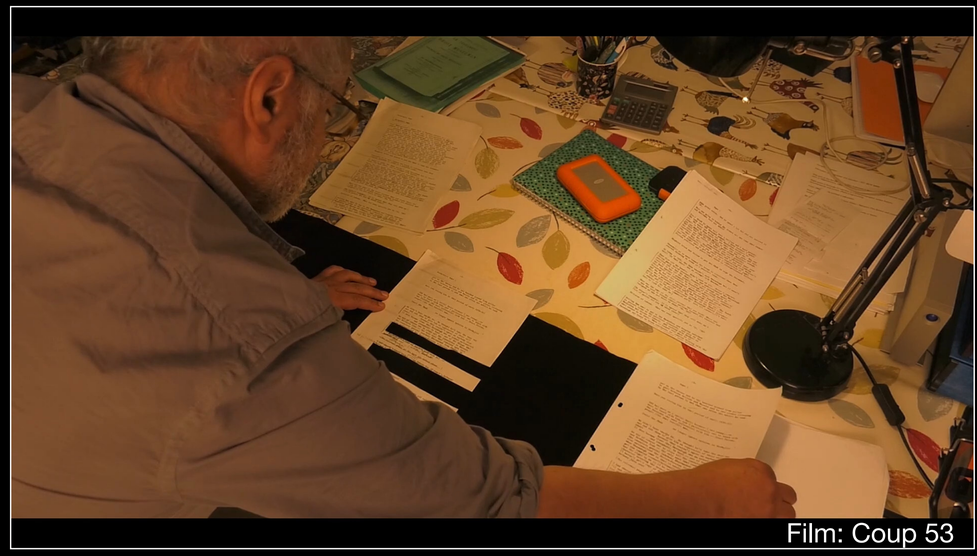
Origin idea from

- This methodology originated from BBC is called 'Paper edit'. It's battlefield proven since 1970s and can be very efficient in news-making .

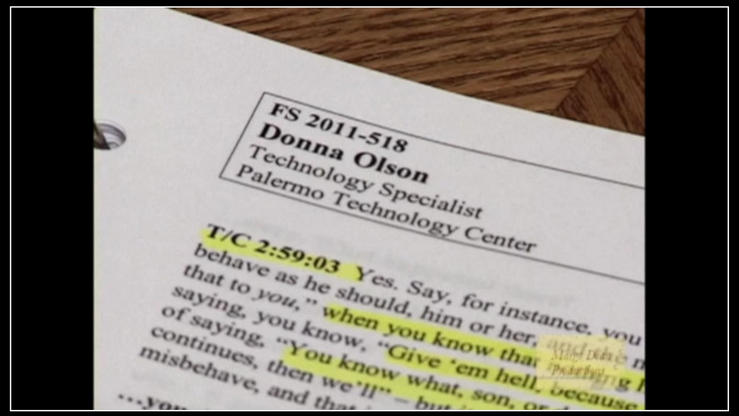


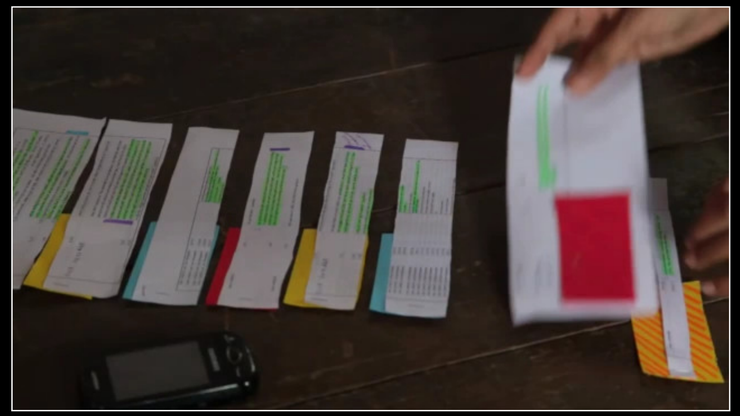
Digital Paper Edit Town Hall 20_11_2019

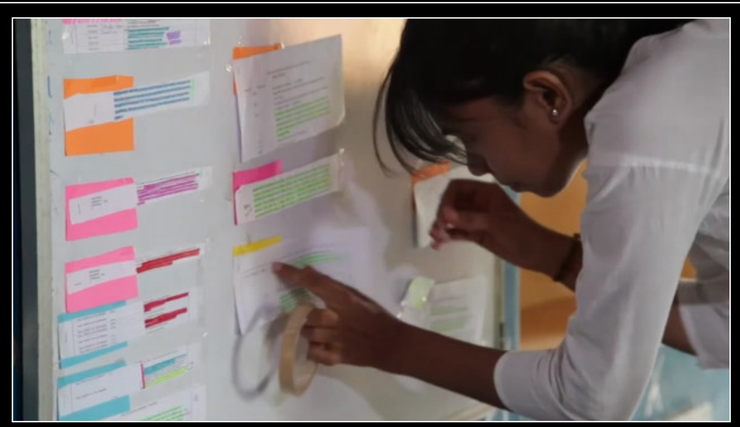




Film: Coup 53







Keybindings PREVIEW

⇥	[mpv] play this line (guessing start pos at cursor), stop at end
⇧⇥	[mpv] play this line from start (no guessing pos), stop at end
\ ⇥	[mpv] play this line (from cursor), don't stop
\ ␣	[mpv] play line by line from this one till EOF

Keybindings

TIMECODE EDITING

J	Join (timecode) with the next line; If on the first of two http lines with timestamp, will made an EDL line.
|	[split] this line into two, guessing a new timecode
mm	mark/unmark word break point, then |. [split] will use this and cursor together. useful when cut time not predicted well.
⇧← ⇧→	Roll timecode with the previous line for 1 sec
g0	go to the start of subtitle
g8	go to record_out timecode in prev line
g9	go to record_in timecode
gO	append a gap for 5 secs below current line
gN	append a line for 10 minutes below current line, place cursor to input clipname
gB gb	toggle a line between '[B]' or not.
gc	calculate duration of this line, append to the end
\c	toggle conceallevel=0, 1

Keybindings

EDITORIAL DECISION / BBC-style Paper Edit

\p	Enter cherry-pick mode. tabnew on the left, map ↵
↵	pick this line to Vim tab 1, then mark used ---
\P	Enter cherry-pick mode (split horizontally), map ↵
↵	pick this line to next window, then mark used ---
⌫	reject this line, mark xxx, then go to next line
⌦ or fn⌫	toggle between EDL and xxx; toggle --- to EDL
V ␣	render those highlighted lines with tsv2roughcut
V x	export those highlighted lines with tsv2fcpxml

Keybindings

MPV IPC CONTROL MODE

Live Preview

\\	init. *will invoke* **mpv --input-ipc-server=/tmp/mpvsocket --pause clipname.mp4** *and enter IPC Control mode. s ← → ↑ ↓ ␣ ↵ redefined, and restored at quit*
\\(again)	send quit signal via ipc socket to mpv
␣	toggle play
←→	move, then seek to cursor
↑↓	move, then [mpv ipc] seek; reload when clip changed
\␣	play from this line till EOF
↵, s	seek to cursor
ns	search next (n), and seek
S	sync playhead: seek vim cursor to nearest of mpv timecode, wrap end
\S	backwards of sync playhead
gS	playhead sync periodically, every 1s. call again to dismiss. ␣ will pause and restore status
⇥	seek to cursor, always play. if in comment region, jump to next 'EDL'
⇧⇥	seek to line head, then ⇥
gi	get current timecode, write record_in. overwrite existing.
go	get current timecode, write record_out & clipname. overwrite existing
_	get current timecode from mpv, write to the 'out' of this line. move down, write the same as 'in'. very useful when add timecode to a plain text transcription.

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Keybindings

Org mode/Markdown Folding

⇥	When not on a EDL/---/xxx line, do `za` on ## Header or * Org head
⇧⇥	cycle foldlevel=0,1,2 if on a EDL line, you have to use `za zm zr zo z0 zM zR`
`]]`	go to next heading
`[[`	go to previous heading
`g]`	go to next comment line (not started with EDL)
`g[`	go to previous.

Cheatsheet

Yes. It fits in a single A4 page!

You can print it out.

https://github.com/scateu/tsv_edl.vim/blob/main/tsv_edl_refcard.pdf

Edit video/audio with or without Vim

PREVIEW

Key	Function
→|	[mpv] play this line (guessing start pos at cursor), stop at end
⇧→|	[mpv] play this line from start (no guessing
\ →|	[mpv] play this line (from cursor), don't stop
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EDITORIAL DECISION / BBC Paper Edit

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⌫	reject this line, mark `xxx`, then go to next line
⌦ (fn⌫)	toggle between `EDL` and `xxx`; toggle `---` to `EDL`
V ␣	render those highlighted lines with `tsv2roughcut`
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MPV IPC CONTROL MODE

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	and enter IPC Control mode. `s ← → ↑ ↓ ␣ ⏎` are redefined, and restored at quit
\ \	send quit signal via ipc socket to mpv
␣	[mpv ipc] toggle play
← →	move, then [mpv ipc] seek to cursor
↑↓	move, then [mpv ipc] seek; reload when clip changed
\ ␣	[mpv ipc] play from this line till EOF
⏎, s	[mpv ipc] seek to cursor
ns	[mpv ipc] search next (`n`), and seek
S	[mpv ipc] sync playhead: seek vim cursor to nearest of mpv timecode, wrap end
\ S	backwards of sync playhead
gS	playhead sync periodically, every 1s. call again to dismiss. ␣ will pause and restore status
→|	seek to cursor, [mpv ipc] always play. if in comment region, jump to next 'EDL'
⇧→|	seek to line head, then →|
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Org mode/Markdown Folding

→|	When not on a EDL/---/xxx line, do `za` on `## Header` or `* Org head`
⇧ →|	cycle foldlevel=0,1,2
	if on a EDL line, you have to use `za zm zr zo zO zM zR`
]]	go to next heading
[[	go to previous heading
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g[	previous.

Syntax

```
* Section 1
Any line starts without EDL is note.
* * SubSection
EDL→00:00:01,000→00:00:05,000→|…image…|→subtitles….
EDL→00:00:01,000→00:10:01,422→|…clipname…|→[B]this is B-Roll
EDL→00:00:01,000→00:10:01,422→|…clipname…|→subtitles….
EDL→00:00:01,000→00:10:01,422→|…clipname…|→subtitles and\Nnewline


## Subsection
Sharp, asterisk are both recognized as header, and can be folded with TAB
key.
```

`https://github.com/scateu/tsv_edl.vim`

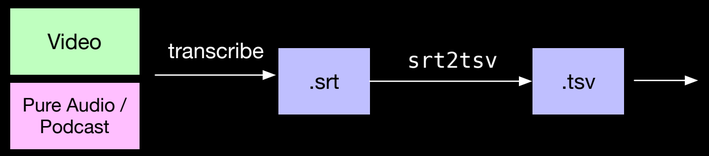
Monday, July 10, 2023

What if you don't use Vim?

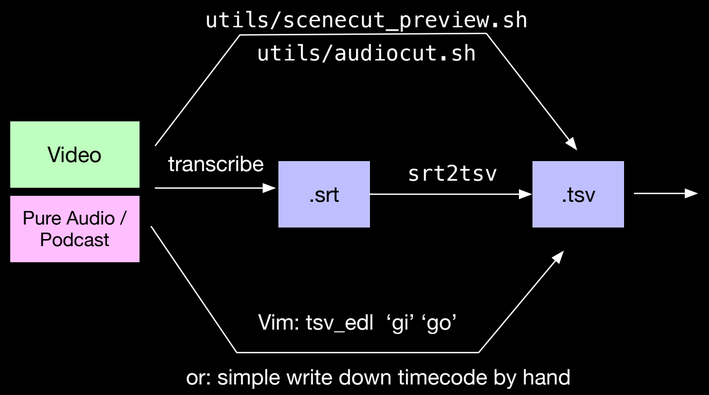
- Any plain text editor will do.
- `utils/*.py` are standalone scripts
  - stdin, stdout
- Excel / Google Spreadsheet

`https://github.com/scateu/tsv_edl.vim`

Summary: Diagram



Summary: Diagram



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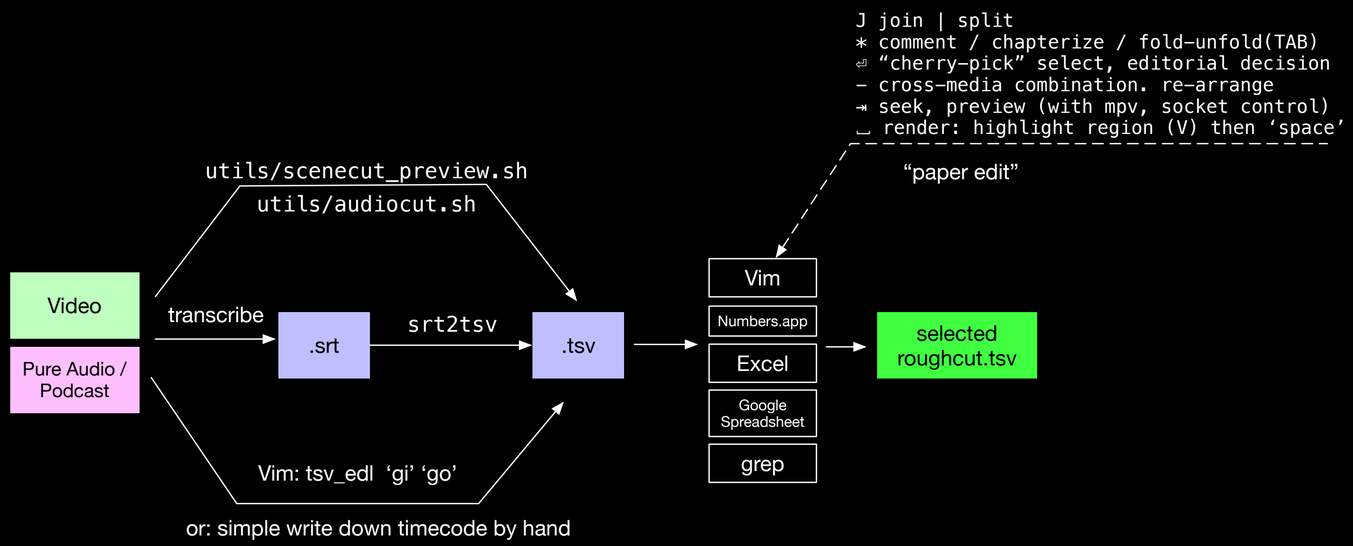

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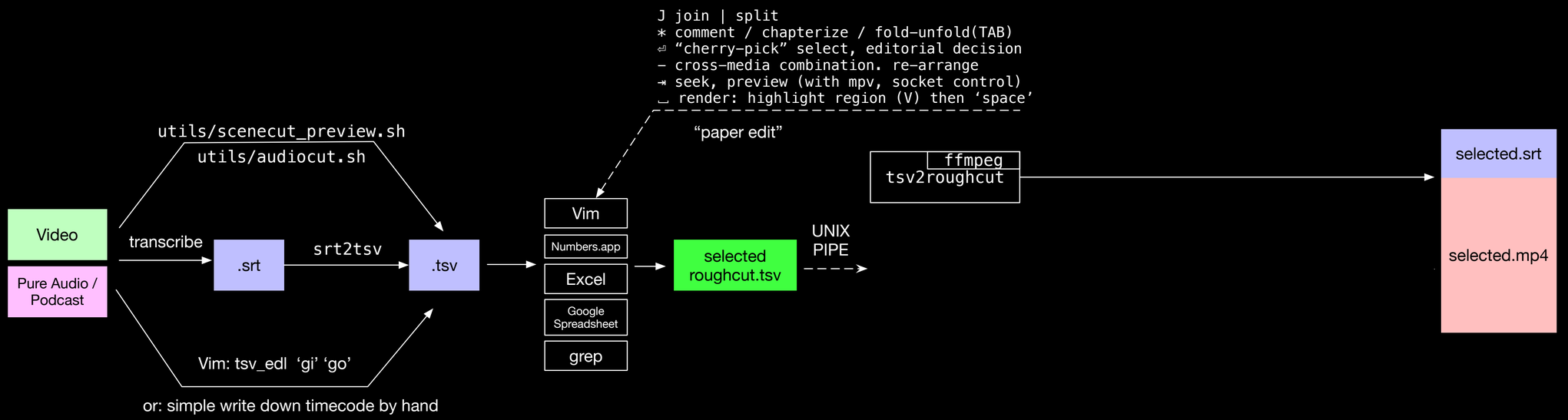

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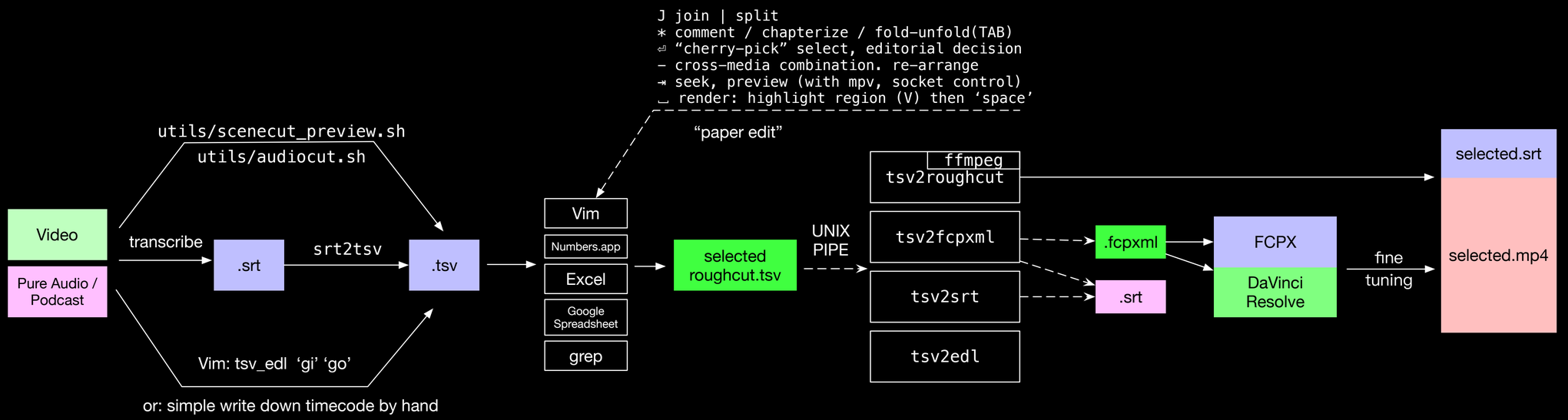

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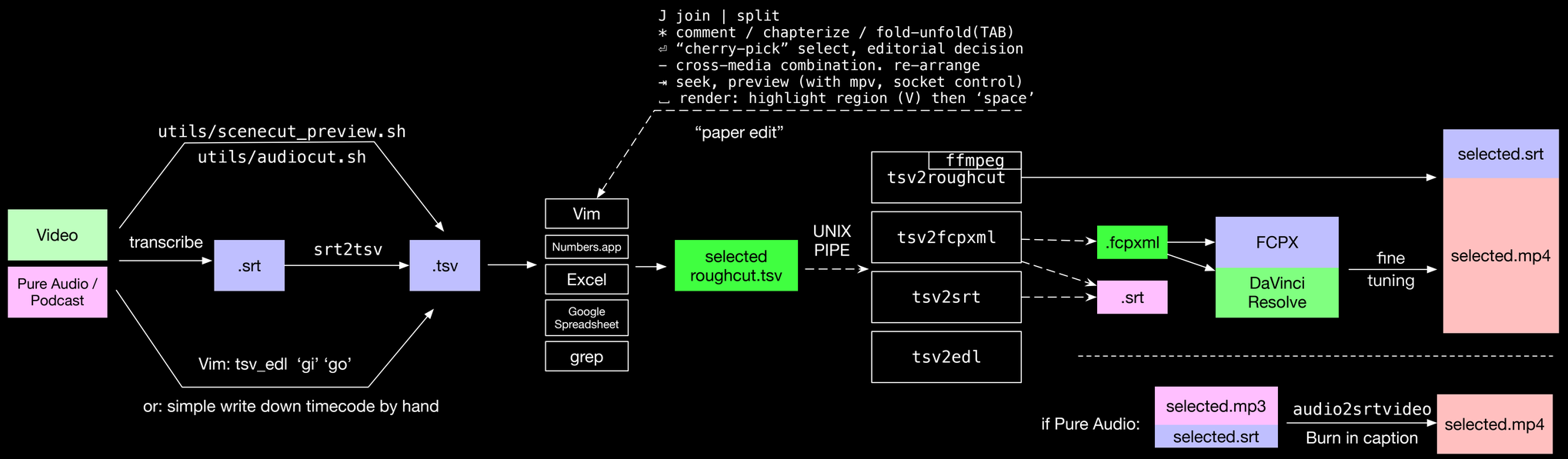
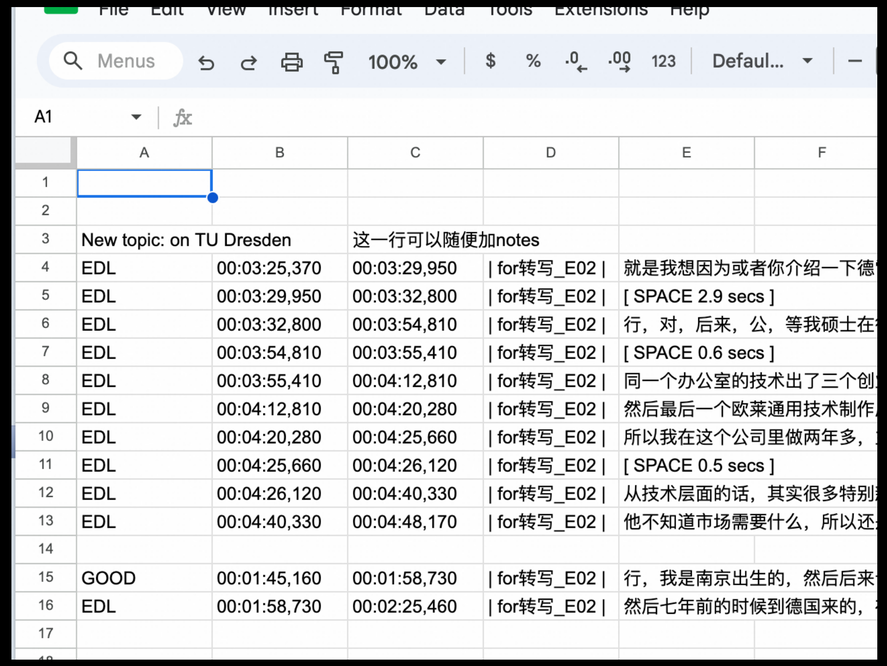
Summary: Diagram



Edit video/audio with or without Vim

https://github.com/scateu/tsv_edl.vim

- surely collaborates via Google Spreadsheet
- works on Android with Termux



Edit video/audio with or without Vim

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VfD E51 The Cybersecurity Sleuth.tsv+

```
EDL     Record In       Record Out      Clipname        Subtitle

* 片头

EDL     00:00:11,780    00:00:31,130    | VfD E51 The Cybersecurity Sleuth |    Stealth technology, the internet, GPS in the palm of your hand on the most operation technology, is a driver of our times since its founding
EDL     00:00:31,510    00:00:36,840    | VfD E51 The Cybersecurity Sleuth |    Welcome to Voices from DARPA a window onto DARPA's core of program managers.
EDL     00:00:37,120    00:00:39,652    | VfD E51 The Cybersecurity Sleuth |    Their job, to redefine what is possible.

EDL     00:00:39,652    00:00:43,431    | VfD E51 The Cybersecurity Sleuth |    My name is Ivan Amato , and I'm  your DARPA host.
xxx     00:00:43,431    00:00:47,522    | VfD E51 The Cybersecurity Sleuth |    Today, I am pleased to be talking with Dr. Sergey Bratus.
xxx     00:00:47,522    00:00:50,711    | VfD E51 The Cybersecurity Sleuth |    Sergey joined DARPA as a program manager in the agencies'
EDL     00:00:50,711    00:00:55,209    | VfD E51 The Cybersecurity Sleuth |    Information Innovation Office in 2018, he brings into the agency,
EDL     00:00:55,209    00:01:01,212    | VfD E51 The Cybersecurity Sleuth |    what you might think of as a six cents for the suring of a deeply hidden security vulnerabilities
EDL     00:01:01,212    00:01:08,961    | VfD E51 The Cybersecurity Sleuth |    in the oceans of software and the communications practices underlying our civilian and military technologies and systems.

EDL     00:01:08,961    00:01:10,183    | VfD E51 The Cybersecurity Sleuth |    Prior to coming to DARPA,
EDL     00:01:10,183    00:01:16,593    | VfD E51 The Cybersecurity Sleuth |    Sergey had been at Dartmouth College, beginning in 2002 as a post doctoral research associate, and most
EDL     00:01:16,593    00:01:21,745    | VfD E51 The Cybersecurity Sleuth |    recently as research associate professor in the computer science department,
EDL     00:01:21,745    00:01:27,676    | VfD E51 The Cybersecurity Sleuth |    he began his professional career at BBNtechnologies where he worked on natural language processing.
EDL     00:01:27,676    00:01:33,328    | VfD E51 The Cybersecurity Sleuth |    I find that professional element fascinating because the BBN-DARPA connections spanned
EDL     00:01:33,328    00:01:39,461    | VfD E51 The Cybersecurity Sleuth |    back to 1960s when the two work together on some of the foundations of Internet. Back to Sergey,
EDL     00:01:39,461    00:01:46,849    | VfD E51 The Cybersecurity Sleuth |    he received his undergraduate education at the Moscow Institute of Physics and Technology and earn his PhD
EDL     00:01:46,849    00:01:49,220    | VfD E51 The Cybersecurity Sleuth |    in mathematics from Northeastern University.
EDL     00:01:49,220    00:01:55,211    | VfD E51 The Cybersecurity Sleuth |    He has published over one hundred technical papers, and his research has received several awards, including
EDL     00:01:55,211    00:01:59,980    | VfD E51 The Cybersecurity Sleuth |    the 2012 Black Hat Pony Award for most innovative research.
EDL     00:02:00,000    00:02:03,060    | VfD E51 The Cybersecurity Sleuth |    That award, pony award is a prestigious (有声望的) one
EDL     00:02:03,060    00:02:07,140    | VfD E51 The Cybersecurity Sleuth |    that recognizes achievements of security researchers and security community.
EDL     00:02:07,730    00:02:19,450    | VfD E51 The Cybersecurity Sleuth |    Doctor Sergey Bratus, thanks for making some time to talk with me today about your many and very efforts to increase every safety in the par

EDL     00:02:19,450    00:02:20,470    | VfD E51 The Cybersecurity Sleuth |    Thank you for being here.
EDL     00:02:20,720    00:02:22,080    | VfD E51 The Cybersecurity Sleuth |    Thank you for having me here, Ivan.

* Orignal Story

EDL     00:02:22,270    00:02:28,720    | VfD E51 The Cybersecurity Sleuth |    Let's start with the origin story of your interests in computer science and cyber security.
EDL     00:02:29,160    00:02:38,700    | VfD E51 The Cybersecurity Sleuth |    I think one of the things that fascinate the public about scientists and engineers is just where there are sort of in some ways, hybrid spec
EDL     00:02:38,700    00:02:41,330    | VfD E51 The Cybersecurity Sleuth |    [Q] So did you grow up in a geeky household ?
EDL     00:02:41,620    00:02:47,560    | VfD E51 The Cybersecurity Sleuth |    [Q] Did you encounter an engaging professor at the Moscow Instruments of Physics and Technology ?
EDL     00:02:47,670    00:02:48,770    | VfD E51 The Cybersecurity Sleuth |    [Q] Where did you interest come from?
EDL     00:02:49,220    00:02:50,890    | VfD E51 The Cybersecurity Sleuth |    Oh, computers were a miracle.

** Soviet Union

EDL     00:02:51,370    00:03:03,590    | VfD E51 The Cybersecurity Sleuth |    I grow up on the Soviet Union, and we would get a slow trick of imported technology, which is so wonderfully contrasted with the rest of lif
EDL     00:03:03,830    00:03:07,280    | VfD E51 The Cybersecurity Sleuth |    They were something from the future.
EDL     00:03:08,100    00:03:12,612    | VfD E51 The Cybersecurity Sleuth |    And so even though the technology that was available
EDL     00:03:12,612    00:03:18,316    | VfD E51 The Cybersecurity Sleuth |    to a school student was perhaps decade behind,
EDL     00:03:18,316    00:03:20,565    | VfD E51 The Cybersecurity Sleuth |    it was never less a miracle,
EDL     00:03:20,565    00:03:29,100    | VfD E51 The Cybersecurity Sleuth |    and it had an enormous attraction over the executives myself, we wanted to know how it worked,
EDL     00:03:29,100    00:03:35,770    | VfD E51 The Cybersecurity Sleuth |    and we wanted to be able to program something like those games that we saw on those computer screens.
EDL     00:03:36,930    00:03:41,815    | VfD E51 The Cybersecurity Sleuth |    And so we did, but as I was growing up in the Soviet Union, you could
EDL     00:03:41,815    00:03:54,030    | VfD E51 The Cybersecurity Sleuth |    see the slow progression of technology being important from the rest, and we were left behind by some people listening ten to fifteen years.
EDL     00:03:54,650    00:04:16,020    | VfD E51 The Cybersecurity Sleuth |    There was a bit of luck in that, because in my age, I go to see the very basics of computing, starting with programming micro calculators, w

IBM PC XT: https://en.wikipedia.org/wiki/IBM_Personal_Computer_XT
IBM个人计算机XT是1983年3月8日发行的IBM个人计算机系列中的第二台计算机。
除了增加了内置硬盘驱动器和额外的扩展插槽之外，它与1981年的原始IBM PC型号5150非常相似。


*** 补充问了一下年代

EDL     00:04:16,770    00:04:20,070    | VfD E51 The Cybersecurity Sleuth |    And Sergey, just so that the listeners have a sense of timing here.
EDL     00:04:20,270    00:04:25,360    | VfD E51 The Cybersecurity Sleuth |    You say that you, you really encountered computers for the first time when you're in middle school.
EDL     00:04:25,360    00:04:26,882    | VfD E51 The Cybersecurity Sleuth |    So what years were those actually?
```

NORMAL VfD E51 The Cybersecurity Sleuth.tsv[+]

Edit video/audio with or without Vim

https://github.com/scateu/tsv_edl.vim

Conceal first 4 columns

```
37 >    [Q] So did you grow up in a geeky household ?
38 >    [Q] Did you encounter an engaging professor at the Moscow Instruments of Physics and Techno
39 >    [Q] Where did you interest come from?
40 >    Oh, computers were a miracle.
41
42 ** Soviet Union
43
44 >    I grow up on the Soviet Union, and we would get a slow trick of imported technology, which
45 >    They were something from the future.
46 >    And so even though the technology that was available
47 >    to a school student was perhaps decade behind,
48 >    it was never less a miracle,
49 >    and it had an enormous attraction over the executives myself, we wanted to know how it work
50 >    and we wanted to be able to program something like those games that we saw on those compute
51 >    And so we did, but as I was growing up in the Soviet Union, you could
52 >    see the slow progression of technology being important from the rest, and we were left behi
53 >    There was a bit of luck in that, because in my age, I go to see the very basics of computin
54
55 IBM PC XT: https://en.wikipedia.org/wiki/IBM_Personal_Computer_XT
56 BM个人计算机XT是1983年3月8日发行的IBM个人计算机系列中的第二台计算机。
57 除了增加了内置硬盘驱动器和额外的扩展插槽之外，它与1981年的原始IBM PC型号5150非常相似。
```

Edit video/audio with or without Vim

https://github.com/scateu/tsv_edl.vim

```
~/r/p/V/E/VfD E51 The Cybersecurity Sleuth.tsv
  1 EDL     Record In       Record Out      Clipname        Subtitle
  2
  3 +-- 30 lines: * 片头
 33 +-- 65 lines: * Orignal Story
 98 * Moscow -> US
 99
100 >   One of the quick question just cause i'm serious in the timing of in your educational, professional
    development and world history.
101 >   You got to undergraduate degree in Moscow, and then you got your graduate degree in Northeastern
102 >   So can you tell me, how is it that you made the transition from the then Soviet Union to United States?
103
104 >   I saw the late Soviet Union.
105 >   I grew up with the totalitarian(极权) society that it was, and I wanted out at the time, it was nearly
    impossible to do in any legal fashion.
106 >   But luckily, the soviet power was collapsing.
107 >   It collapsed between 1991 and 1993, and so I could, in fact, go out and study abroad, if an American
    university would take me and several offered.
108 >   And so I left. Quite a few people were more enthusiastic about the prospects of poor Soviet Russian and
    poor Soviet States, unfortunately, they were proven wrong.
109
110 +--- 42 lines: *** Their losses are our gain
152 +-- 13 lines: * Hidden Hazards
165 +-- 20 lines: * Response
185 +-- 25 lines: * PDF different
210 +-- 70 lines: * NEW TOPIC: AMP
280 +--  8 lines: * HOST:
288 +--  8 lines: * GUEST:
296 +--  7 lines: * HOST:
303 +--  8 lines: * GUEST:
311 +--  4 lines: * HOST: question
315 +--  8 lines: * GUEST: 符号执行
323 +-- 13 lines: * HOST
336 +-- 32 lines: * BIGGER QUESTION: Univ. Industry and Gov.
368 +-- 46 lines: * HOST
414 +-- 24 lines: * DREAMed technology
438 +-- 33 lines: * One final question
471 +-- 14 lines: * Bye
~
~
```

Edit video/audio with or without Vim

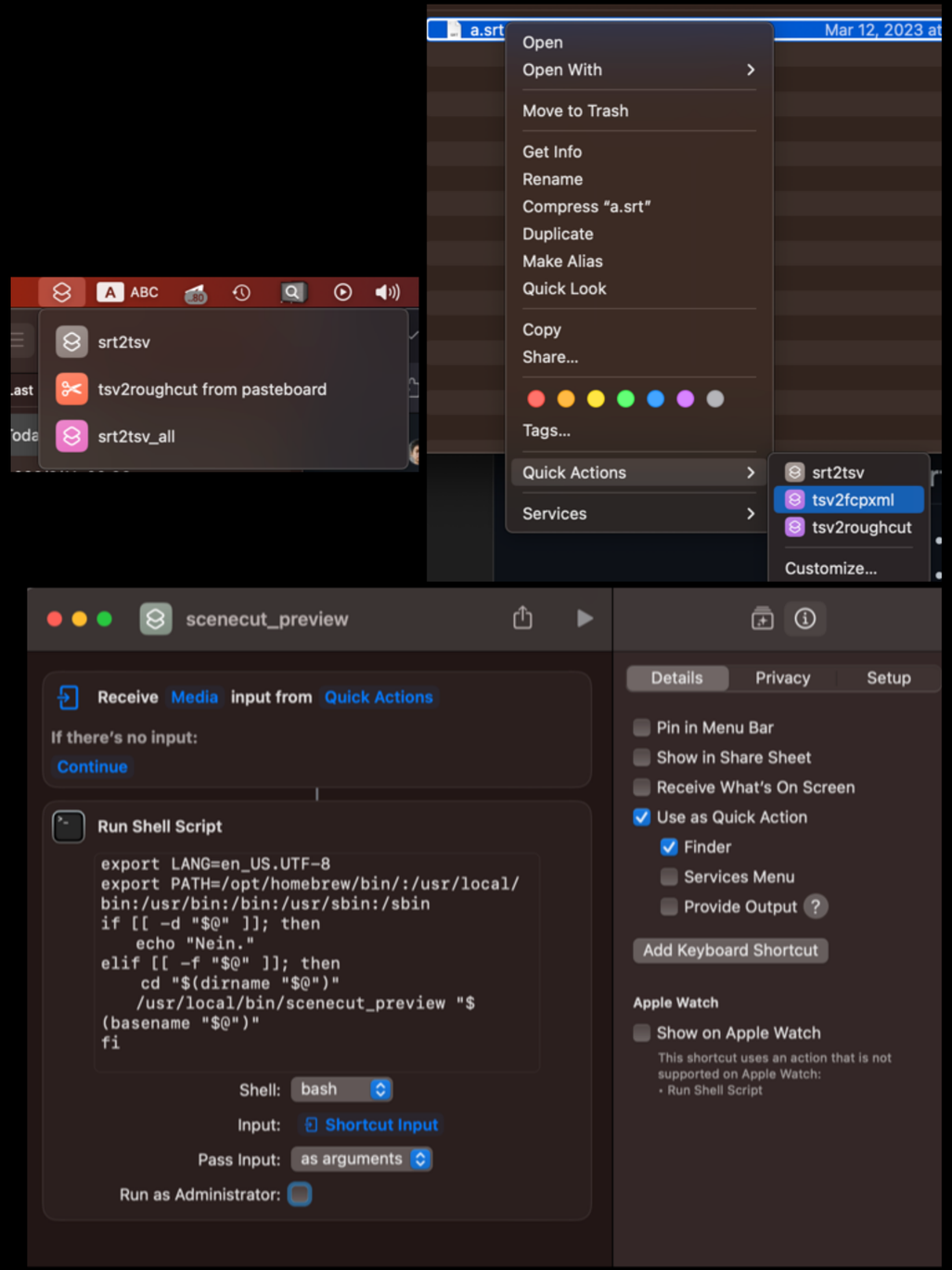
https://github.com/scateu/tsv_edl.vim

```
~/C/ALL_YPM_S01_S02.tsv [No Name]+                                                buffers
107
108 ** Chief Scientific Adviser with an Austrian Accent..... 41 lines [0.5%] +--...
149 ** Depends on what?..... 258 lines [3.3%] +--...
407 ** by 2020. Soviets might..... 15 lines [0.2%] +--...
422 ** Probably know..... 10 lines [0.1%] +--...
432 ** It's the nuclear missile Harrods can sell you
433 >   What?
434 >   [ SPACE 0.8 secs ]
435 >   It all boils down to one simple issue.
436 >   You are the Prime Minister of Great Britain._Shouldn't
    Great Britain have the best?
437 >   Yes, of course.
438 >   If you walked into a nuclear missile showroom,_you would
    buy Trident!
439 >   It's lovely, it's elegant, it's beautiful.
440 >   It is quite simply the best,_and Britain should have the
    best.
441 >   In the world of the nuclear missile,_it is the Savile
    Row suit,
442 >   the Rolls-Royce Corniche,
443 >   the Chateau Lafite 1945.
444 >   It is the nuclear missile Harrods would sell you.
445
446 >   [ SPACE 2.8 secs ]
447 >   What more can I say?
448 >   That it costs J15 billion and we don't need it.
449 >   You can say that about anything at Harrods.
450 >   [ SPACE 4.6 secs ]
451 >   (MURMUR OF CONVERSATION)
452 >   [ SPACE 4.8 secs ]
453 >   Ah, General!_I was hoping to have a word with you.
NORMAL  main  <2.tsv  ■ [00:22:17.640] | YPM S01E01 The Grand Design | /tmp/mpvsocket [↵ = seek]  utf-8[unix]  5% ln :439/7901≡%:1
```

Edit video/audio with or without Vim

https://github.com/scateu/tsv_edl.vim

```
InglouriousBastards.tsv                                                
```



Edit video/audio with or without Vim

https://github.com/scateu/tsv_edl.vim

Give it a try.

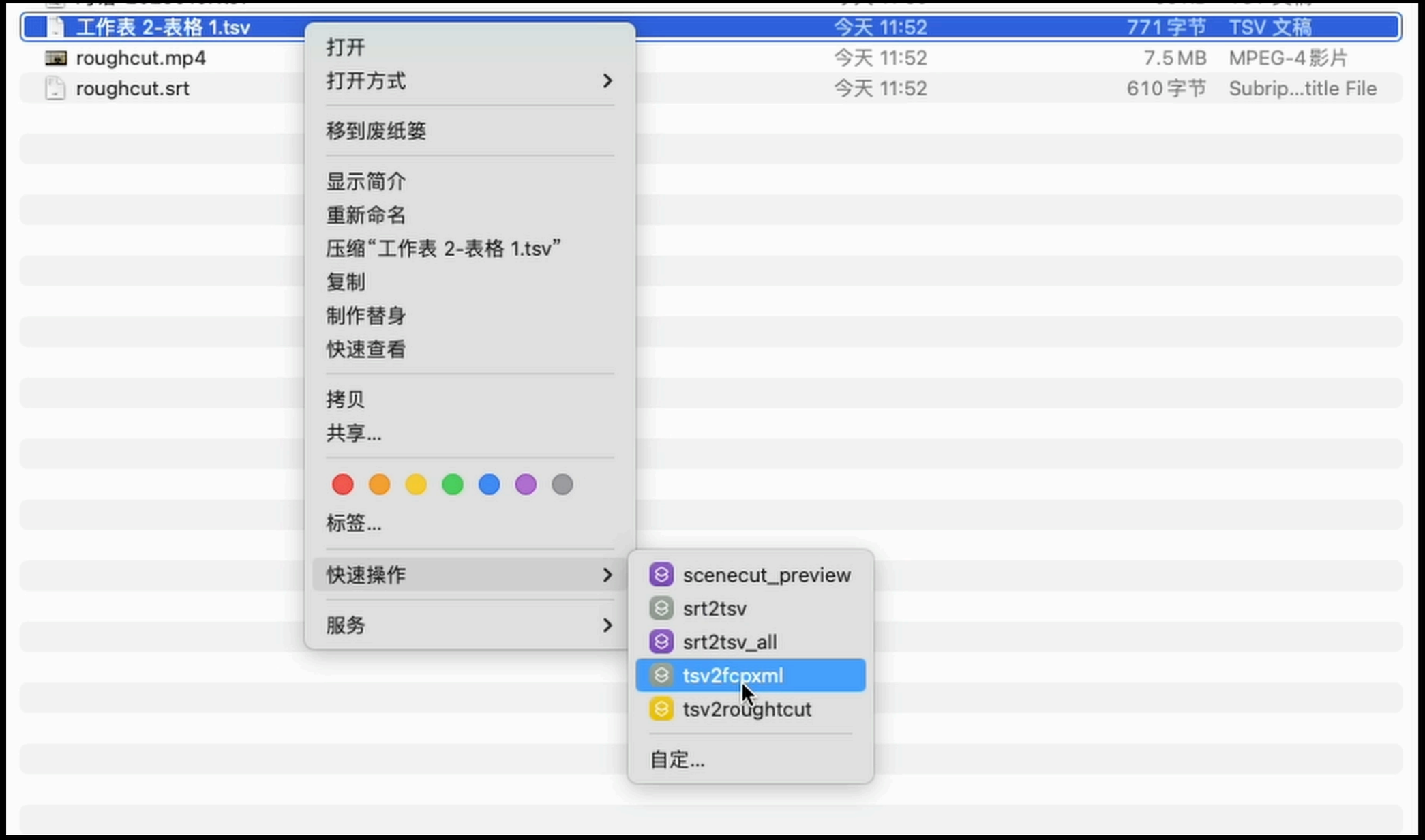
It's fully open sourced.

https://github.com/scateu/tsv_edl.vim

Thank you, and win an Oscar.

https://github.com/scateu/tsv_edl.vim

GUI efforts



https://github.com/scateu/tsv_edl.vim