

From Playlists to Policy: Automating the Analysis of Thousands of Hours of Public Meetings

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Problem Statement

- People spend hours transcribing public meetings
- Videos may require accurate closed captions for accessibility (WCAG 2.1 Level AA or Section 508)
- Videos may not be accessible for non-native speakers
- Human transcription may not be feasible for large video archives
- Valuable civic data remains "locked" inside long-form video
- Disconnected services for transcription and language access

The video shows a Zoom meeting with seven participants in a grid layout. The participants are: Rachel Hise (top left, Maryland flag background), Jennifer Lynch (top middle, office background), Laura Stapleton (top right, blue jacket), Joseph Manko (middle left, blue suit), Mara Doss (middle middle, pink top), Chair Leggett -AIB- (middle right, circular AIB logo background), Justin Robinson (bottom left, Maryland flag background), and Brit Kirwan (bottom right, home office background). A transcript sidebar is open on the right, showing a list of timestamps and text. At the bottom of the Zoom window, there is a video player with a play button, a progress bar at 0:02 / 2:58:45, and various controls like volume, closed captions, settings, and window management.

Transcript

- 0:00 you're live Okay Thank you and welcome to the AIB blueprint for Maryland's
- 0:06 AIB Today's date is uh May the 15th and
- 0:11 we're meeting officially about 10:05 p.m call the meeting to the order Call
- 0:17 the meeting to order And first item for us is a couple of open comments Let me thank our staff uh for all the
- 0:24 tremendous work uh throughout the entire legislative session uh it was rather busy Uh we had some
- 0:32 real challenges and I think that uh given the circumstances and conditions
- 0:37 uh we probably weathered those probably as well as we could Uh there are still some additional challenges that are out
- 0:44 there and we will have an opportunity to review those as we go forward But uh given where we are today I think that
- 0:52 the AIB came out of it somewhat okay in my opinion Um first of all let's adopt
- 0:58 the last meeting minutes summary Uh hope that we had an opportunity to review

English (auto-generated)

Live chat replay was turned off for this video.

AIB Regular Meeting - May 15, 2025



Blueprint Accountability and Implementation Board
383 subscribers

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Clip



Save



Solutioning through intake I

- IT procurements and software review at the State of Maryland are legislatively required to go through the Department of IT (DoIT) (authority with Office of State Procurement).
- DoIT acts as a service provider to understand problem statements, avoid IT sprawl and ensure we build/buy secure services and applications that are cost effective

Solutioning through intake II

“I would like to purchase XYZ to help transcribe public meetings”

“XYZ is not approved due to privacy concerns of it running in our tenant. Can we meet to learn more about your use case?”

Building a transcription analysis service

- Large open-source developer ecosystem around YouTube
- Easy to build upon

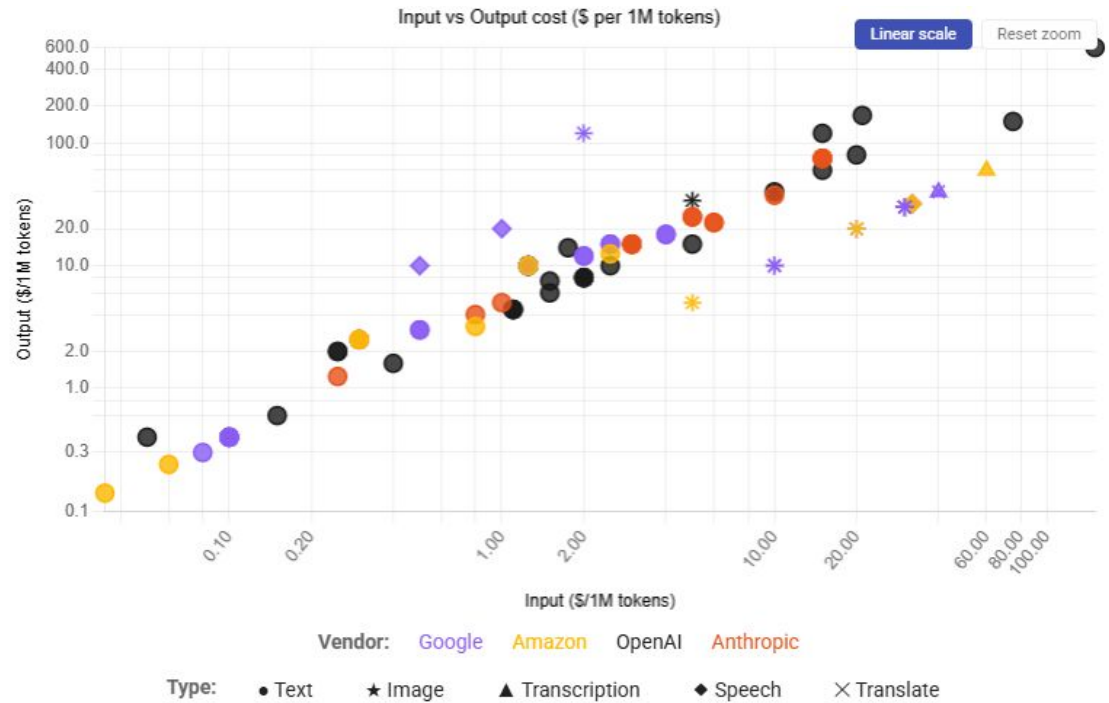


YT-DLP *A feature-rich command-line audio/video downloader*

```
{'duration': 4.96,  
  'start': 11476.479,  
  'text': 'with you all again soon. Have a great'},  
{'duration': 5.04, 'start': 11478.16, 'text': 'afternoon, everyone.'},  
{'duration': 3.92, 'start': 11481.439, 'text': '>> Thanks.'},  
{'duration': 4.56,  
  'start': 11483.2,  
  'text': '>> Thank you, staff. Appreciate you all so'},  
{'duration': 2.401, 'start': 11485.359, 'text': 'much.'}]]  
PS C:\Users\ray.bell> uvx --from youtube-transcript-api youtube_transcript_api atmGAHYpf_c
```

Vendor agnostic

- DoIT manages:
 - Google Workspace
 - Microsoft 365
 - AWS
 - GCP
 - Azure



- Tool designed to meet agencies where they are at
- Options to choose between various models/products (Cloud vs. LLM)

YouTube To Docs: Developer tool

- Framework for users to run on their local machine
- Not designed to be deployed:
 - Handling of client id and secrets to write to workspace and sharepoint
 - Cloud IP's are often blocked from crawling YouTube
 - Limit exposure of API keys

Version 1



DoIT-Artificial-Intelligence / youtube-to-docs



Google colab



Docs



```
pip install youtube-transcript-api
```

Summarize with custom instructions, such as spelling acronyms correctly



Version 2



DoIT-Artificial-Intelligence / youtube-to-docs

```
PS C:\Users\ray.bell> uvx youtube-to-docs --help
```

```
Installed 57 packages in 1.72s
```

```
Usage: python.exe C:\Users\ray.bell\
```

```
[-h] [-o OUTFILE] [-t TRANSCRIPT]
[-m [MODEL]] [--tts TTS]
[-i [INFOGRAPHIC]]
[--alt-text-model ALT_TEXT_MODEL]
[-nys] [-tr TRANSLATE] [-cia] [-a ALL]
[--verbose]
[-scc [SUGGEST_CORRECTED_CAPTIONS]]
[-pp POST_PROCESS]
[video_id]
```

Positional Arguments:

video_id

Can be one of: A YouTube URL e.g. 'https://www.youtube.com/watch?v=atmGAHYpf_c' A Video ID e.g. 'atmGAHYpf_c' Playlist ID (starts with 'PL' e.g. 'PL8ZxoInteClyHaiReu0Hpv6Z4SPrXtYtW') Channel Handle (starts with '@' e.g. '@mga-hgo1740') Comma-separated list of Video IDs. (e.g. 'KuPc06JgI_A,GaLhDyf3F8g')

Options:

-h, --help

show this help message and exit

-o, --outfile OUTFILE

Can be one of: Local file path to save the output CSV file. 'workspace' or 'w' to store to Google Drive or a workspace folder ID. 'sharepoint' or 's' to store to Microsoft SharePoint. 'memory' or 'm' to keep artifacts in memory (no files on disk). 'none' or 'n' to skip saving to a file (results will be in the log).

-t, --transcript TRANSCRIPT

The transcript source to use. Can be 'youtube' (default) to fetch existing YouTube transcripts, AI model name (e.g. 'gemini-3.1-pro-preview', 'gemini-3-flash-preview', 'gcp-chirp3', perform STT on extracted audio. For 'gcp-' models (Cloud Speech-to-Text V2), 'GOOGLE_CLOUD_PROJECT' is required and 'YTD_GCS_BUCKET_NAME' is optional/recommended. For 'aws-transcribe', 'YTD_S3_BUCKET_NAME' is required.

-m, --model [MODEL]

The LLM to use for speaker extraction, Q&A generation, tag generation, and summarization. Can be one of: Gemini model (e.g., 'gemini-3-flash-preview') GCP Vertex model (prefixed with 'vertex-'; e.g. 'vertex-claude-haiku-4-5@20251001') AWS Bedrock model (prefixed with 'bedrock-'; e.g. 'bedrock-claude-haiku-4-5-20251001-v1' 'bedrock-nova-2-lite-v1') Azure Foundry model (prefix with 'foundry-'; e.g. 'foundry-gpt-5-mini') Can also be a comma-separated list of models (e.g. 'gemini-3-flash-preview,bedrock-claude-haiku-4-5-20251001-v1'). Defaults to 'None' (Transcript only).



MCP and SKILLS

gemini extensions install

<https://github.com/DoIT-Artificial-Intelligence/youtube-to-docs.git>

```
/plugin marketplace add DoIT-Artificial-Intelligence/youtube-to-docs  
/plugin install youtube-to-docs@youtube-to-docs
```

Version 3

```
PS C:\Users\ray.bell> uvx --from "youtube-to-docs[all]" youtube-to-docs-app
Installed 113 packages in 3.82s
App available at: http://localhost:8000
INFO: Started server process [27860]
INFO: Waiting for application startup.
INFO: Application startup complete.
INFO: Uvicorn running on http://0.0.0.0:8000 (Press CTRL+C to quit)
```

Maryland Web Design System

 **Maryland YouTube to Docs** Process YouTube videos into transcripts, summaries, Q&A, infographics, and more. [How this works](#)

 GitHub



YouTube URL, Video ID, Playlist ID, Channel Handle, or comma-separated Video IDs

Output File

[Show advanced options](#)

 DoIT-Artificial-Intelligence / youtube-to-docs

Process Video

Agentic Engineering

- Employ best practices for Software engineering from the start:
 - Testing (Start with the tests)
 - Type checking (ty)
 - Linting and formatting (ruff)
 - Accessibility (axe and html validate)
 - Scripts to hand-check (bash and python files)
- Biggest wins
 - Using MDWDS library, Accessibility testing and API for cloud services
- Biggest losses
 - Repo drift
- Use with caution. Use approved tools. Watch costs.

Demo(s)

Example speaker identification to improve Closed Caption text

```
≡ youtube generated - B0x2I_doX9o - PHS Committee Session, 4. ✨ ☐ ...
youtube-to-docs-test > srt-files > ≡ youtube generated - B0x2I_doX9o - PHS Co
1 1
2 00:00:02,639 --> 00:00:09,040
3 Good morning. Uh thank you. It is uh
4
5 2
6 00:00:05,680 --> 00:00:10,639
7 Monday, April 7th. Happy siny die. This
8
9 3
10 00:00:09,040 --> 00:00:13,518
11 is public health and minority health
12
13 4
14 00:00:10,639 --> 00:00:15,759
15 disparity subcommittee. We have one bill
16

≡ gemini-3-flash-preview suggested corrections - B0x2I_doX9o - PHS Committee Session, 4_7_2025 #1.srt ✖
youtube-to-docs-test > suggested-corrected-caption-files > ≡ gemini-3-flash-preview suggested correctio
1 1
2 00:00:02,639 --> 00:00:15,759
3 [Chair Bagnel] Good morning. Uh, thank you. It is, uh, Monday, April 7th.
4
5 5
6 00:00:13,519 --> 00:00:48,719
7 We have one bill, um, for discussion today. It is Senate Bill 447. This is
8
9 15
10 00:00:45,280 --> 00:00:54,000
11 [Delegate Alustin] Oh, sorry. All of my questions have been answered. Than
12
13 19
14 00:00:52,480 --> 00:01:18,799
15 [Chair Bagnel] All right. Thank you very much, Delegate Alustin. Um, uh, s
16
```

Demo(s)

Question & Answer extraction from a YouTube video

question number	questioner(s)	question	responder(s)	answer	timestamp	timestamp url
1	UNKNOWN (Committee Member)	Regarding the statement about working with individuals "willing to work with us," who specifically within the sphere is not willing to work with the Office of Security Management?	James Saunders (Acting Chief Information Security Officer); Katie Savage (DoIT Secretary)	There is a mix of agencies; some maintain degrees of independence due to partially successful centralization efforts 10 years ago. The goal is to work with the willing first and leverage law/legislation to bring others on board for centralized visibility. Secretary Savage added that larger agencies tend to be less "enterprised," creating technology sprawl that requires relationship building and addressing legacy infrastructure.	00:27:02	https://www.youtube.com/watch?v=WTC39xMj4-k&t=1622
2	UNKNOWN (Committee Member)	Have any improvements been made to make the CISO the ultimate decision-making agency in the state during a cyber attack, effectively overriding pushback from agencies claiming federal system independence?	James Saunders (Acting Chief Information Security Officer)	Yes, the State CISO has that power. It is clear in law and was executed clearly multiple times over the past summer.	00:29:10	https://www.youtube.com/watch?v=WTC39xMj4-k&t=1750
3	UNKNOWN (Committee Member)	Do you work with counties and local municipalities, who often struggle with costs and legacy systems (like Windows 10), to bring them in line or provide guidance?	James Saunders (Acting Chief Information Security Officer)	Yes, DoIT is working with 23 counties and Baltimore City, including developing a new policy suite with their input and engaging through the Maryland Local Cybersecurity Collaborative. They are working to extend state resources and capabilities to locals, while respecting Home Rule.	00:30:26	https://www.youtube.com/watch?v=WTC39xMj4-k&t=1826

Demo(s)

Translation from English to Spanish for a YouTube video

youtube-to-docs-artifacts > srt-files > ☰ youtube generated - fd1rMbv5loE - EBA			youtube-to-docs-artifacts > srt-files > ☰ youtube translated gcp-translate-es - fd1		
1	1		1	1	
2	00:00:00,000 --> 00:00:03,000		2	00:00:00,000 --> 00:00:03,000	
3	Either		3	De cualquier manera	
4			4		
5	2		5	2	
6	00:00:06,879 --> 00:00:09,879		6	00:00:06,879 --> 00:00:09,879	
7	way,		7		
8			8	3	
9	3		9	00:04:02,000 --> 00:04:06,239	
10	00:04:02,000 --> 00:04:06,239		10	Buenas tardes a todos. Si pudieran	
11	Good afternoon everyone. If you could u		11		
12			12	4	
13	4		13	00:04:04,480 --> 00:04:08,079	
14	00:04:04,480 --> 00:04:08,079		14	tomar asiento, por favor, para que podamos empezar.	
15	take a seat please so we can get started		15		
16			16	5	
17	5		17	00:04:06,239 --> 00:04:10,319	
18	00:04:06,239 --> 00:04:10,319		18	con nuestra audición, se lo agradecería mucho.	

Demo(s)

Example Infographic of a YouTube video

MARYLAND SENATE EBA COMMITTEE SESSION | MARCH 5, 2026 | SESSION #1 | VIDEO SUMMARY

1. DEPARTMENT OF INFORMATION TECHNOLOGY (DIT)

BUDGET: \$518M
(0.9% increase)

CYBERSECURITY & AI

- 97% of servers scanned for vulnerabilities
- 1/3 of civil servants use vetted AI tools (e.g., Google Gemini)

INSOURCING & SAVINGS

- Converted contractors to state employees
- \$4.7M savings in FY25
- Transferred "Maryland Benefits" platform

OVERSIGHT ISSUES (DLS Concerns)

- Declining project performance (procurement delays)
- Recommend cutting:
 - \$3M "expedited projects"
 - \$500k permitting platform

2. DEPARTMENT OF LABOR (DOL)

BUDGET: \$678.5M
(5.6% decrease)

PAID FAMILY & MEDICAL LEAVE

- Program on track
- Deductions start Jan 1, 2027
- Benefits available 2028

UNEMPLOYMENT INSURANCE (UI)

- Call center in-house (\$20M annual savings)
- \$760M "unrecoverable overpayments" (pandemic era, legal issues)

WORKFORCE DEVELOPMENT

- Apprenticeships up 6% (>14,000 active)
- MD Train (AI) (\$2M prop. vs DLS cuts)
- Adult Education (\$400k cut warning, lose \$850k federal matching funds)

3. DEPARTMENT OF COMMERCE

BUDGET: \$283M
(\$20.5M decrease)

ECONOMIC WINS

- THE SPHERE (National Harbor)
- AstraZeneca expansion (Frederick)
- "CAPITAL OF QUANTUM" Initiative

FILM TAX CREDIT DEBATE

- DLS recommends sunseting
- Agency/Industry disagree: Pays for itself, sustains jobs

REGIONAL CONCERNS

- WESTERN MD: Funding complaints (Senator Corderman)
- SOUTHERN MD: Seafood marketing, Defense sector support (Pax River, Senator Bailey)

TOURISM & ARTS

- Losing market share (VA, PA, DE outspend MD)
- MSAC fighting cuts (Arts drive business/life quality)

BIOHUB MARYLAND

- Advocates seek \$2M for biopharma manufacturing training
- MD ranks #3 in biotech

GENERAL THEMES & TAKEAWAYS



FISCAL CONSTRAINT VS. INVESTMENT
(DLS cuts proposed vs agency growth arguments)

MODERNIZATION
(Replacing legacy systems:
Licensing, UI, Permitting)



COMPETITIVE PRESSURE
(Maryland out-competed regionally
for tourism, film, corporate attraction)

Demo(s)

Metadata and summaries of a playlist

Description	Data Published	Channel	Tags	Duration	Transcript	Transcript	One Sentence Summary
Health and Human Services Subcommittee Other for Tuesday, March 10, 2026 @ 1:30 PM	2026-03-11T06:23:30Z	MGA - B&T		0:59:52	https://sta	27,393	https://sta
Health and Human Services Subcommittee Budget Hearing for Friday, March 6, 2026 @ 11:30 AM	2026-03-07T09:27:16Z	MGA - B&T		2:30:03	https://sta	116,959	https://sta
Health and Human Services Subcommittee Budget Hearing for Thursday, March 5, 2026 @ 1:00 PM	2026-03-06T08:09:16Z	MGA - B&T		1:28:56	https://sta	81,154	https://sta
Health and Human Services Subcommittee Budget Hearing for Monday, March 2, 2026 @ 1:00 PM	2026-03-03T07:38:28Z	MGA - B&T		1:34:04	https://sta	73,607	https://sta

Try it yourself!

<https://github.com/DoIT-Artificial-Intelligence/youtube-to-docs>

```
uvx youtube-to-docs --help
```

```
uvx --from "youtube-to-docs[all]" youtube-to-docs-app
```

