

Captions, Audio Description, and ASL, OH My! — DCMP's AI-Assisted Video Accessibility Tool

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About DCMP

DCMP's mission is to make educational content accessible and available to students with disabilities and to increase awareness of the importance of audio description, captions, and American Sign Language.

DCMP receives funding through two grants from the US Department of Education (ED), Office of Special Education Programs (OSEP).

DCMP has been a leader in the creation and distribution of accessible media for 30 years, and partners with the top content creators and accessibility specialists in the country.



DCMP: Services

- Produce audio description, captioning, and American Sign Language
- Maintain a VOD platform of accessible educational media
- Develop technology to improve production of accessible media
- Provide resources related to the production of quality accessibility
- Teacher training on the use of accessible media in the classroom
- For-hire captioning, audio description, American Sign Language



AI **Assisted** Accessibility Creation

- DCMP has developed an AI-assisted tool-set for the creation of quality captioning, audio description, and sign language.
- Designed with teachers and small organizations in mind, it's feature-rich without the complexity of professional tools.
- All AI features are optional and require a human-in-the-loop to validate each step prior to publishing.



AI Assisted Accessibility: Captions

Our tool uses machine learning and natural language processing to create a first-draft caption file.

- Upon video upload, AI generates a speech-to-text transcript and aligns the timing of each word to the audio.
- A natural language processing engine, developed by DCMP, analyzes each sentence to determine where to insert line-breaks and when to separate captions.
- Based on DCMP's [Captioning Key](#), our published guidelines for quality captioning, each step is guided toward quality.



AI Assisted Accessibility: Audio Description

Our tool enables users to write, voice, and mix AD!

- Audio description segments can be inserted anywhere in the video, and users select between in-line or extended description.
- Users may voice the description themselves using their own microphone – or they may select an AI voice.
- Upon completion of writing and voicing, the new audio description is automatically mixed with the program audio as a separate track.



AI Assisted Accessibility: Sign Language

Our tool enables users to produce their own sign language videos.

- *No AI involved in this step – humans only!*
- Users may record (or assign someone else to record) sign language interpretation videos using a webcam, phone, or tablet.
- Original video is shown alongside a preview with large captions.
- Sign language track may be embedded in a picture-in-picture window, or exported separately, perfectly timed with the original video.



AI Assisted Accessibility: Export and Share

Accessible media needs an accessible player or platform.

- This tool is being integrated into DCMP's "Clips and Lessons" feature soon.
- Users may download all accessibility files for use on their own platform.
- Videos may also be shared via a unique URL or embedded on other platforms by generating an embed code – using DCMP's player!



AI Assisted Tool is Fully Accessible

- This tool is designed to work with screen readers and screen magnifiers.
- AI voices can be used by individuals who are Deaf or hard of hearing to add audio description.
- Captions can be added and time-synced automatically. They will need to be proofed by a sighted and hearing individual.



DCMP's AI Accessibility Tool: Trial Account

- [Sign up for a trial account to have access to the Accessibility Tool](#)
- If you have questions, please contact us ccamp@dcmp.org or ksisk@dcmp.org
- www.dcmp.org
- Thanks for coming to our presentation!

