
Generative AI for Video Generation (2)

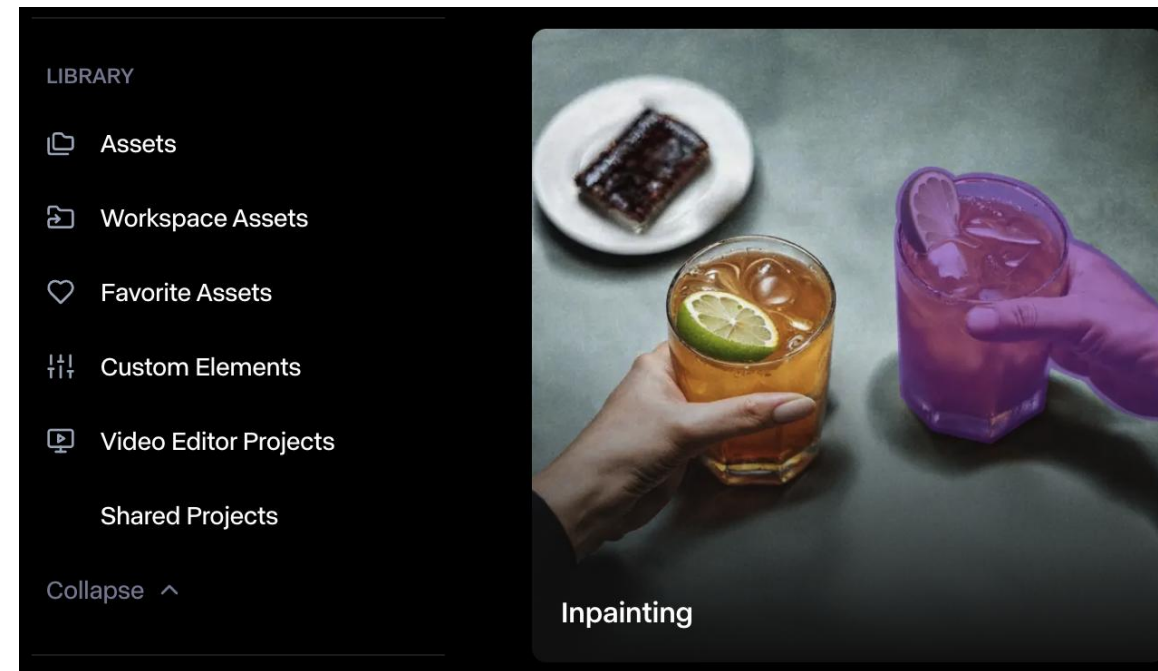
COMP4431 Lab 5

Lab 05 Agenda

- Advanced Video Generation Techniques
 - Inpainting
 - Tracking
 - Compositing
- Advanced Video Processing Techniques
 - Automatic Scene Splitting
 - Transcript-based Editing
 - Automatic Caption Generation

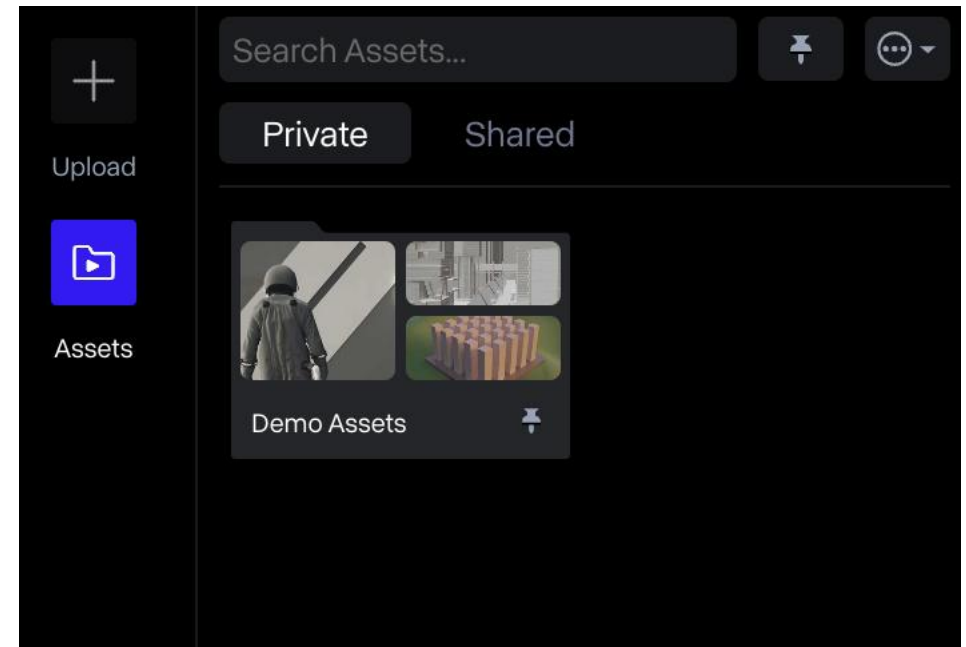
Inpainting

- A Step-by-Step Guide to Inpainting (Remove Unwanted Objects)
 - Select "Inpainting" from your dashboard.
 - Upload your video clip.
 - Adjust the brush size in the Controls panel.
 - Brushing over the subject you'd like to make disappear to create a mask.
 - It's okay to draw out of the lines, but try to paint as close to your subject outline as possible for the most accurate selection.
 - Preview the entire clip, and create more keyframes to mask objects as necessary.
 - Click "Done Inpaint" at the top right of the editor screen to view the generated results.



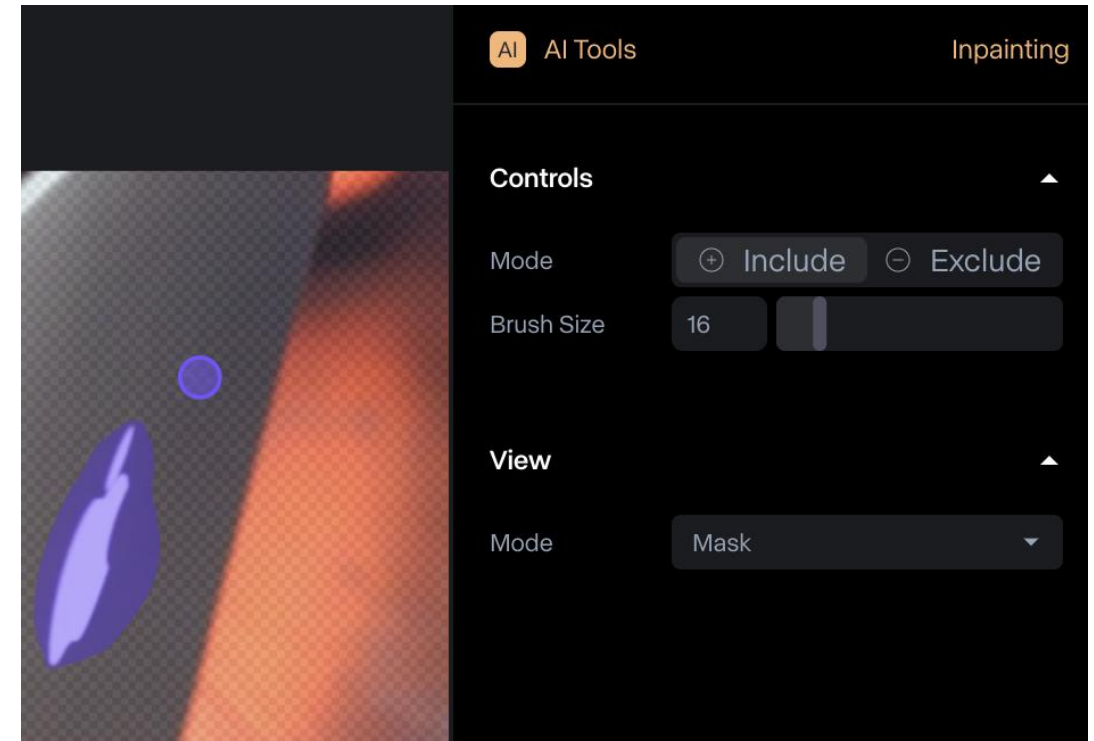
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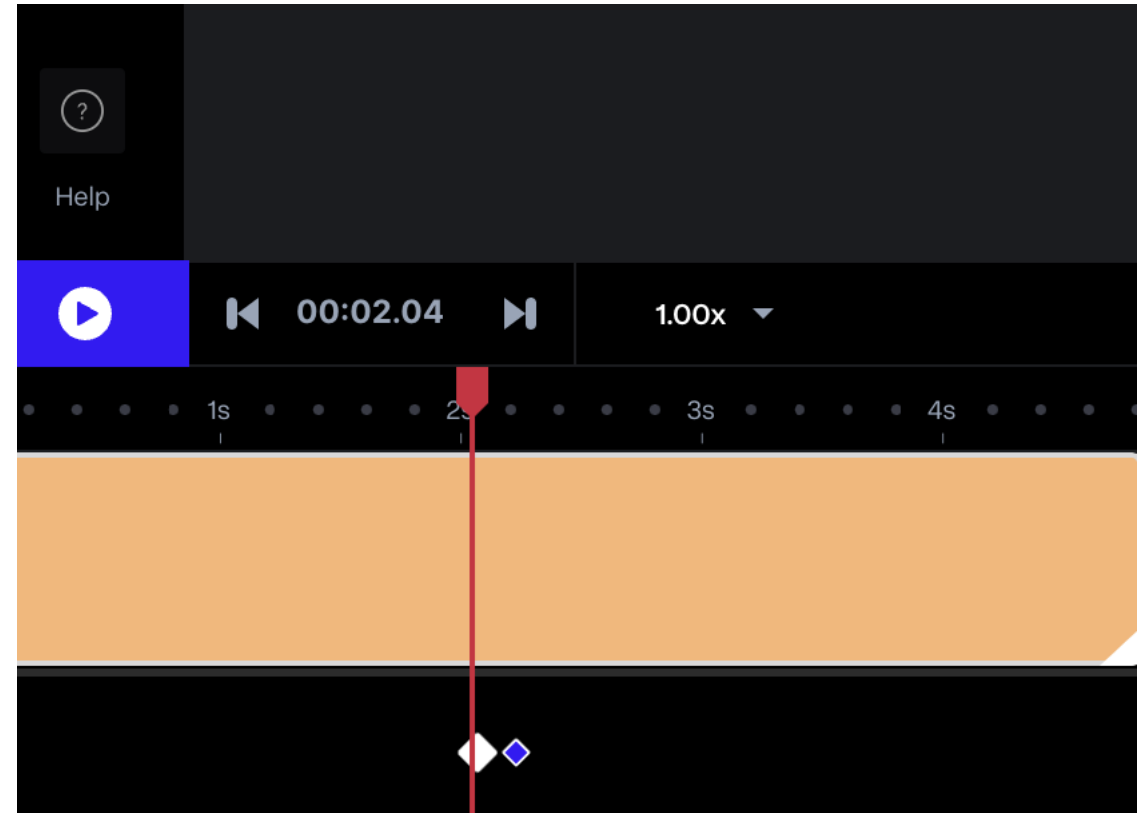
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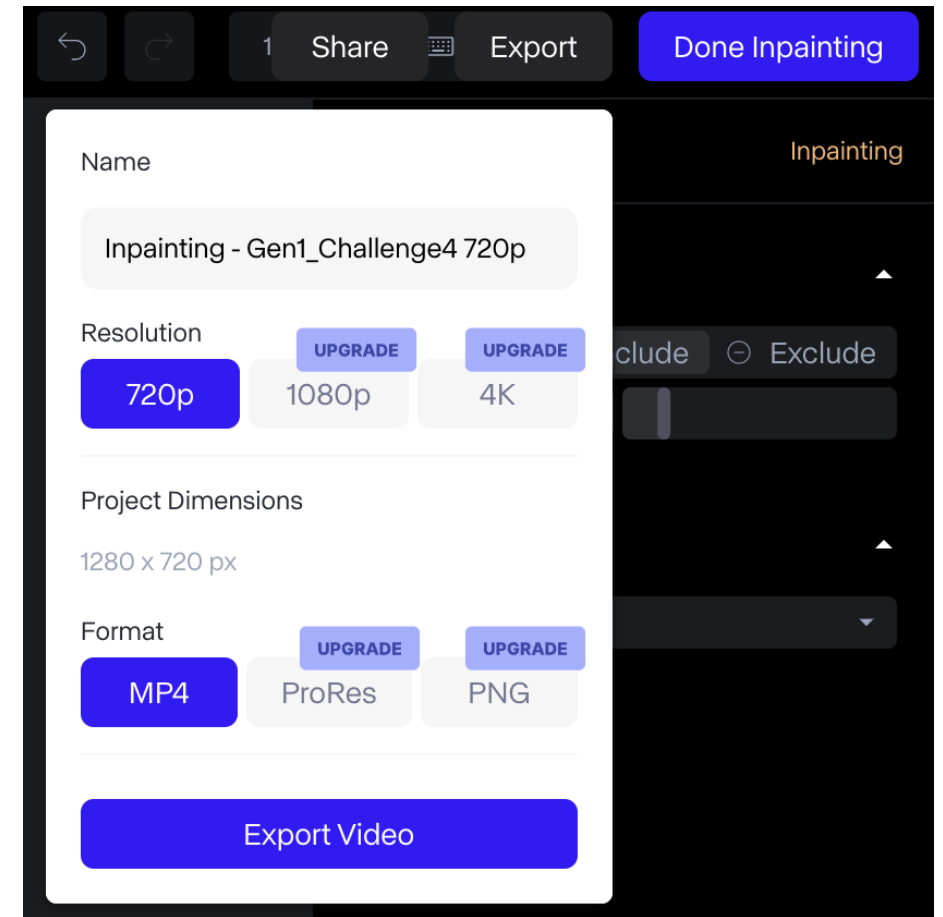
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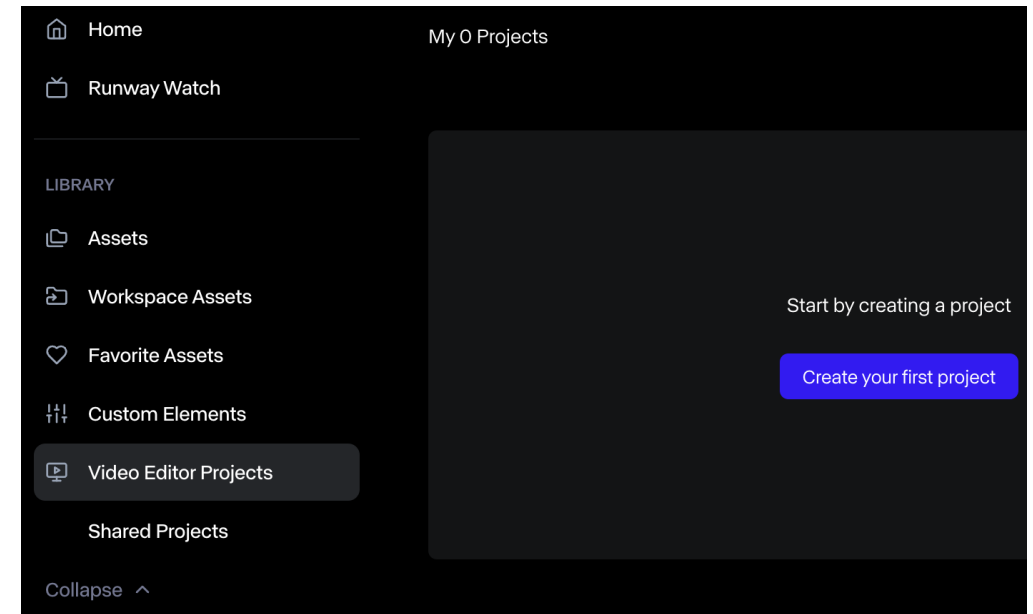
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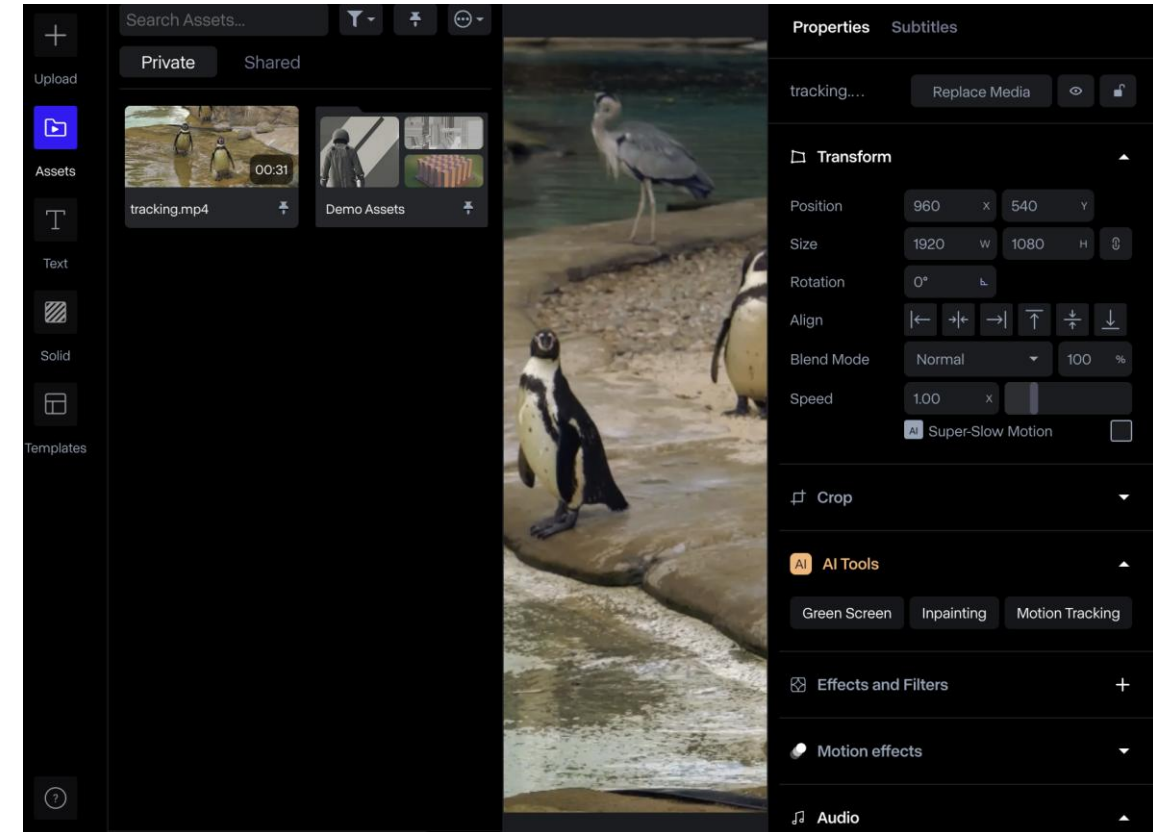
Tracking

- A Step-by-Step Guide to Tracking Objects of Interest
 - From the dashboard, navigate to Video Editor Projects.
 - Start by creating a project
 - Create a new video composition
 - Upload your video clip and add it to the timeline. From the "AI tools" menu, navigate to "Motion Tracking".
 - Click once on the subject or spot you want to track. A red target dot appears to provide a visual reference.
 - Use the "link to parameter" option inside the tracking tool if you want to connect the tracking data to multiple layers or effects.
 - Preview the entire clip to ensure accurate tracking. Create additional keyframes as necessary to maintain precise object tracking throughout the video.
 - Select "Done Tracking" to return to the main editor and apply your tracking data.



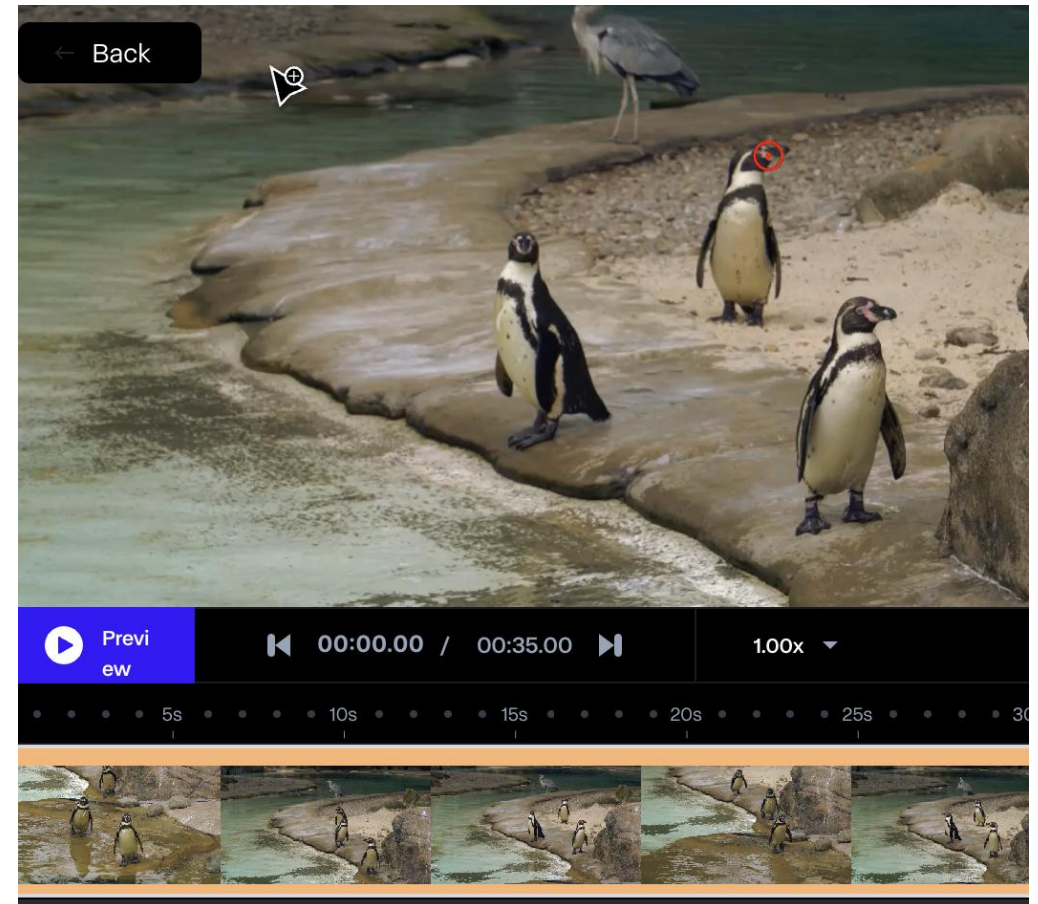
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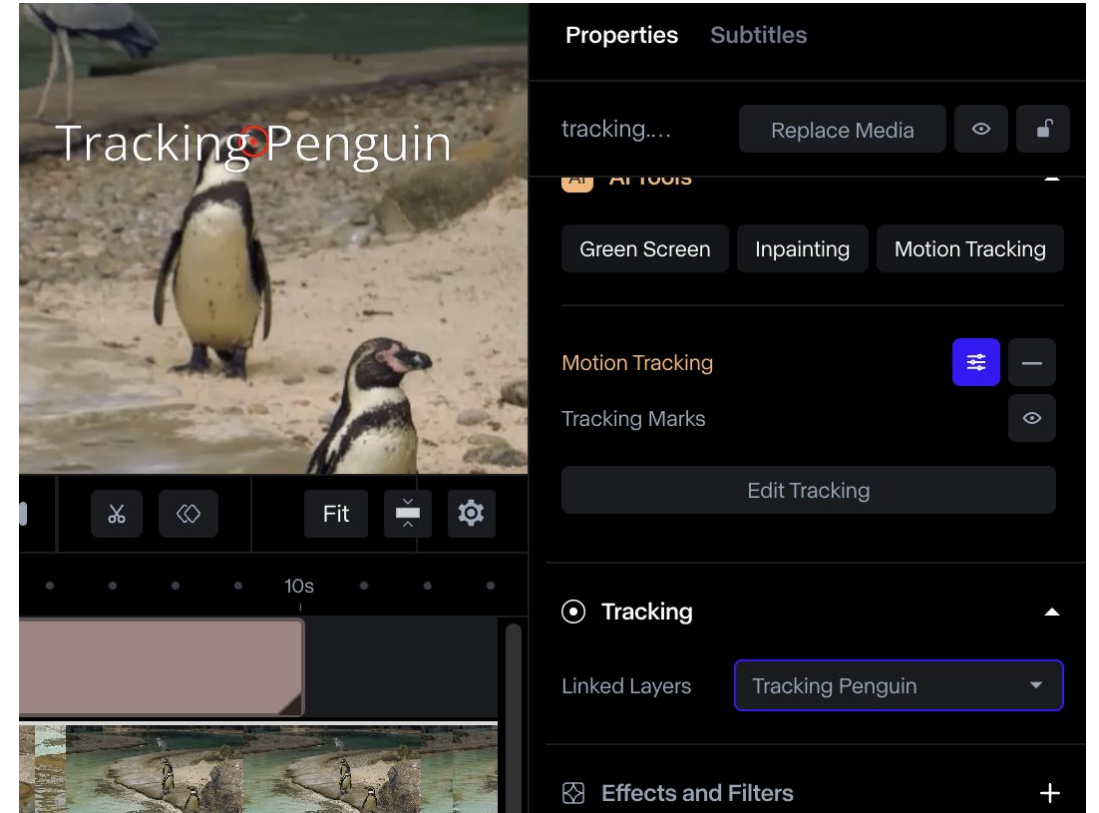
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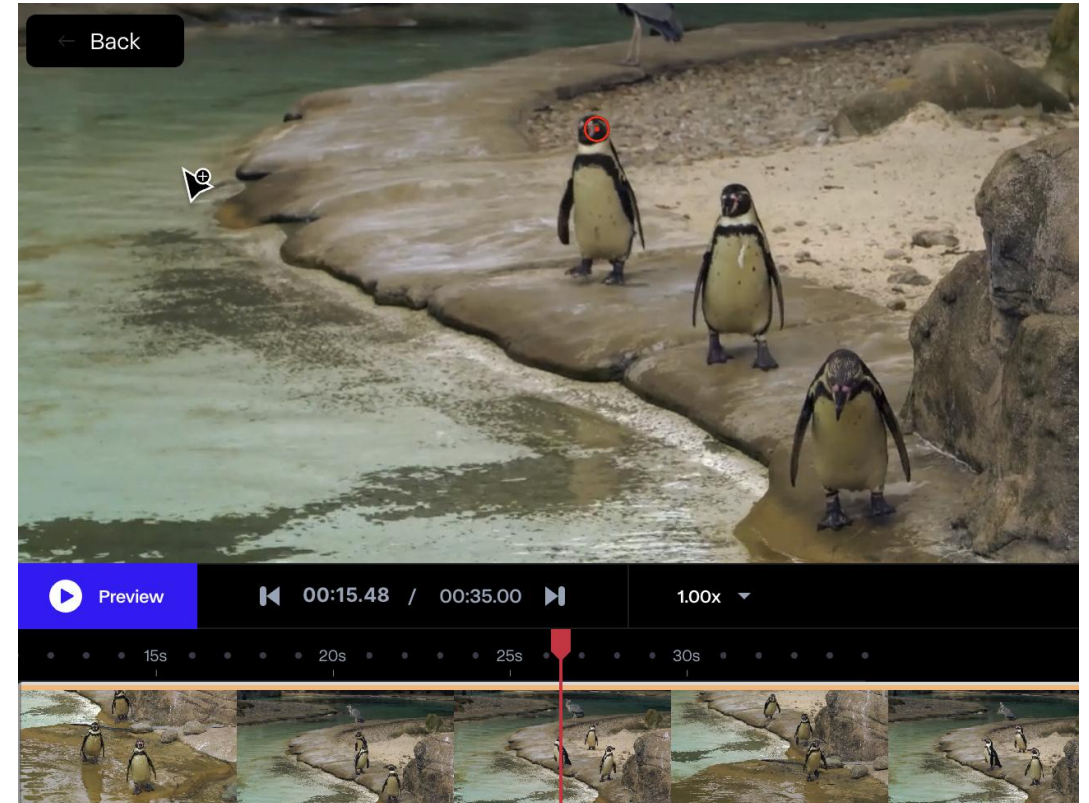
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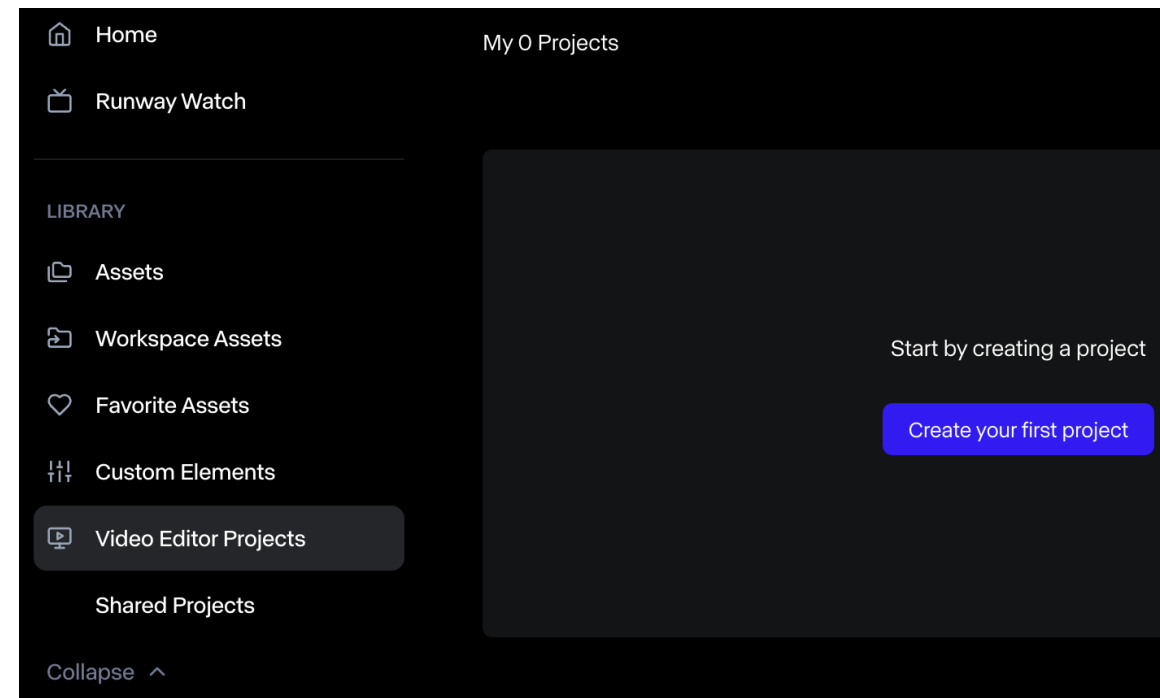
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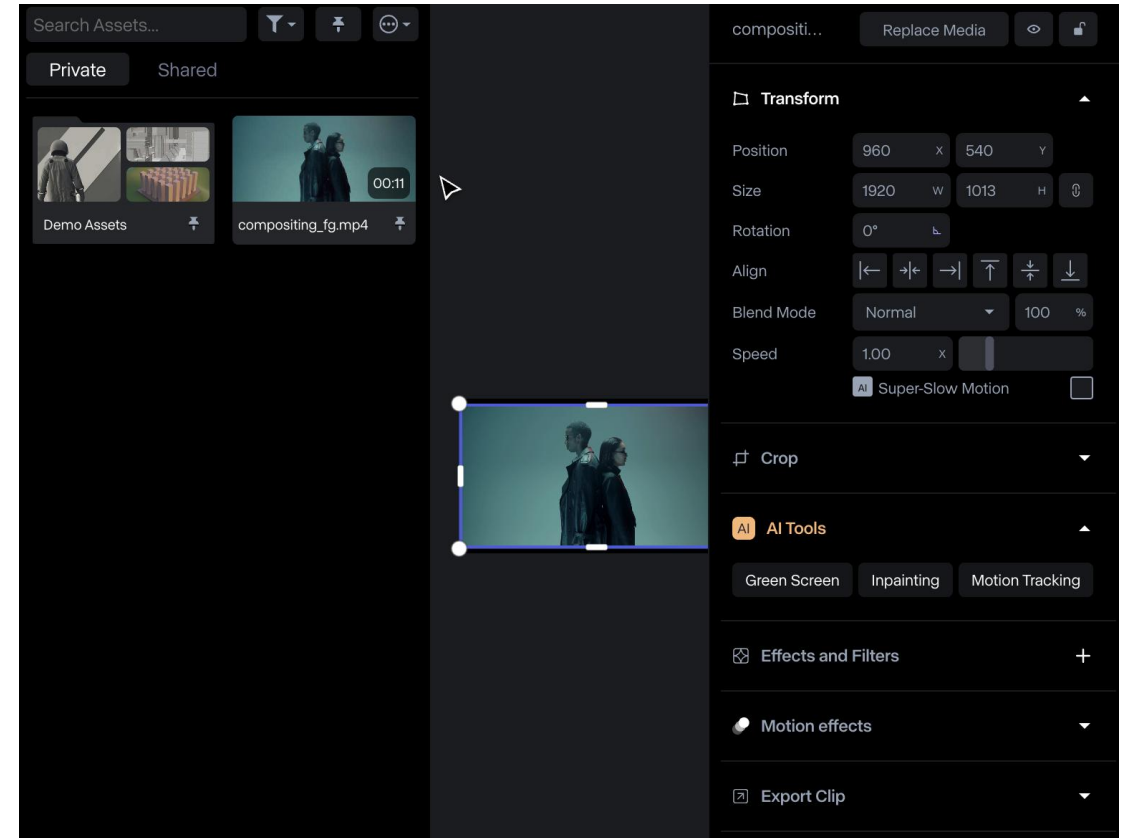
Compositing

- Compositing Foreground and Background of Interest
 - From the dashboard, navigate to Video Editor Projects.
 - Start by creating a project
 - Create a new video composition
 - Upload your video clip and add it to the timeline. From the "AI tools" menu, navigate to "Green Screen".
 - Create a mask that defines the foreground (the part you want to keep).
 - Start by clicking on a central area of your subject.
 - If there are still more areas you'd like to include, continue clicking on different areas of your subject until the mask is satisfactory.
 - Use the brush tool to refine the edges and details of the mask.
 - Preview the entire clip, and create more keyframes to mask objects as necessary.
 - Toggle the Transparency option to more easily see and adjust your mask.
 - Select "Done masking" to return to the main editor. Add "Effects and filters" to make the composited result look more natural and integrated.



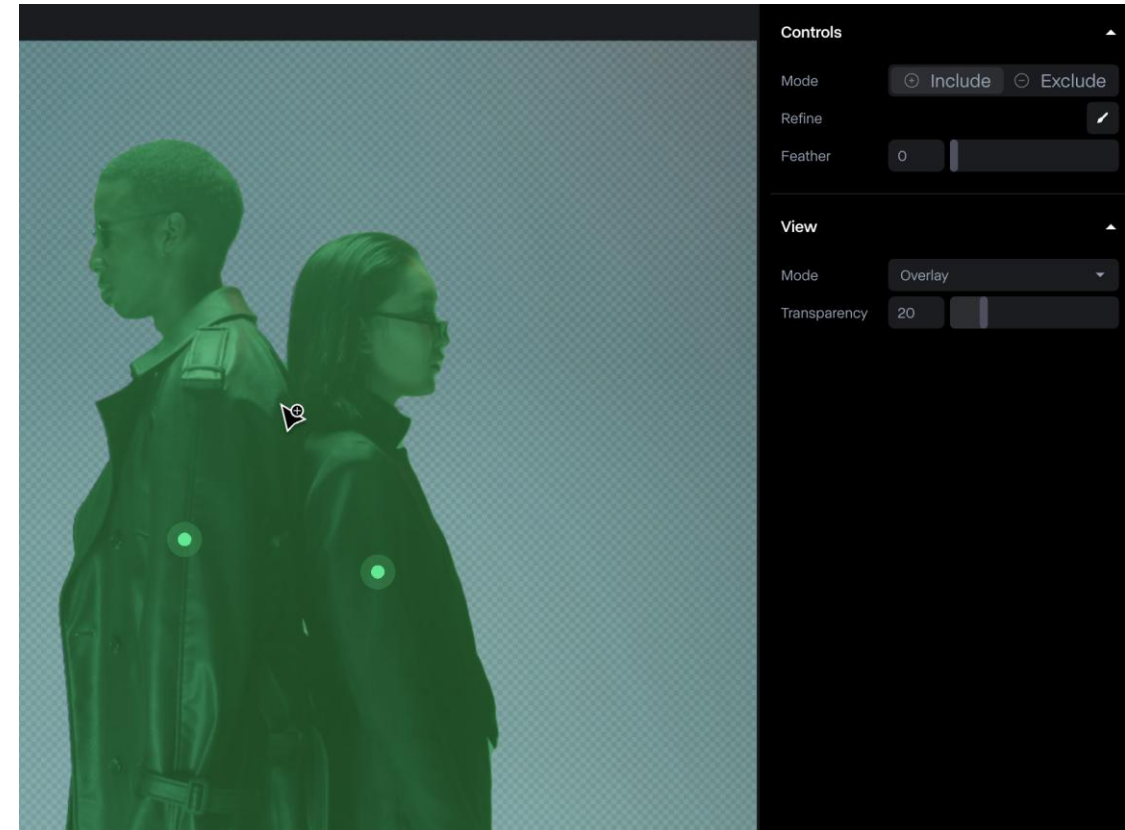
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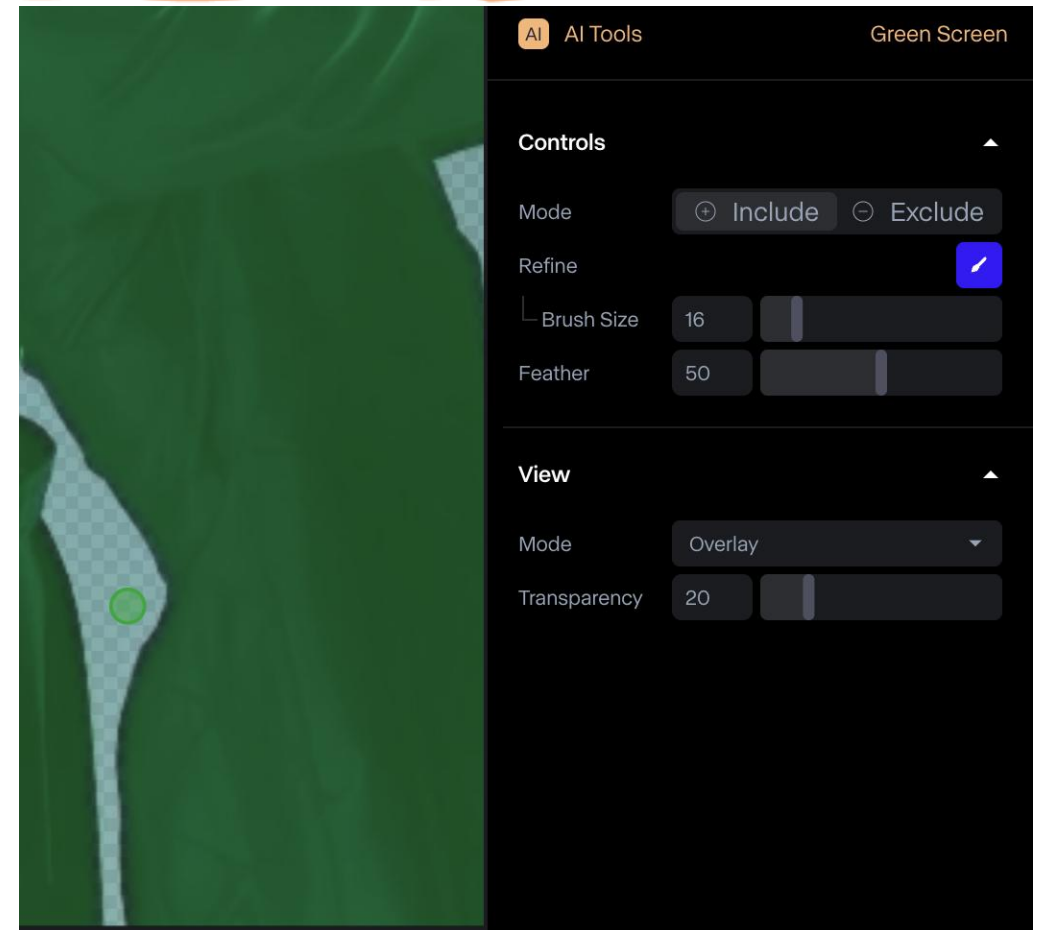
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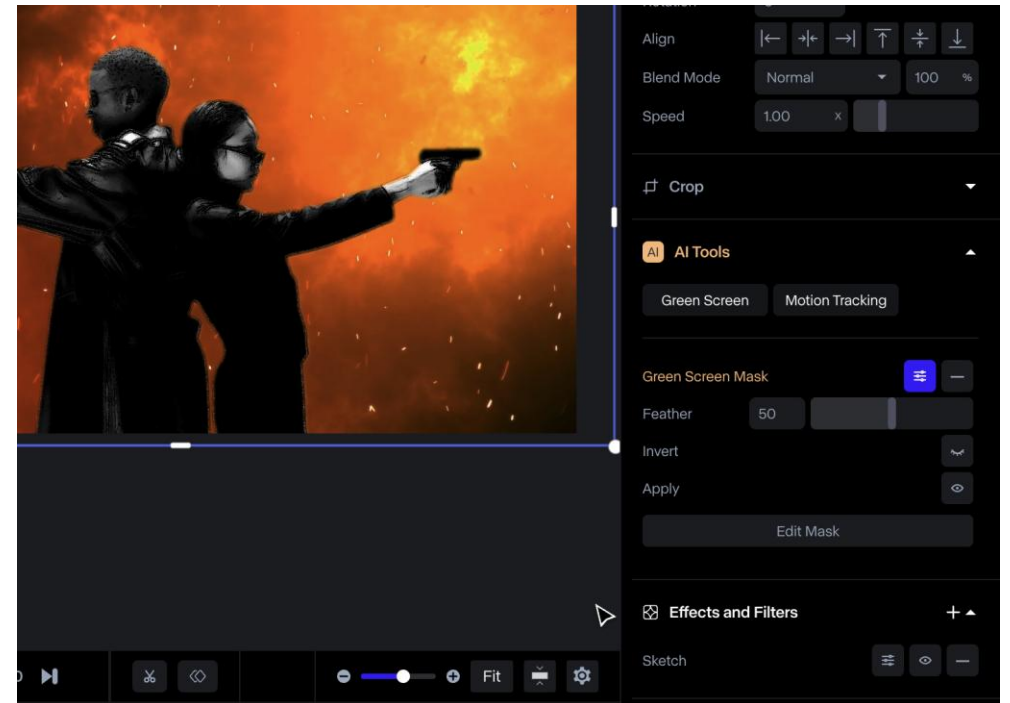
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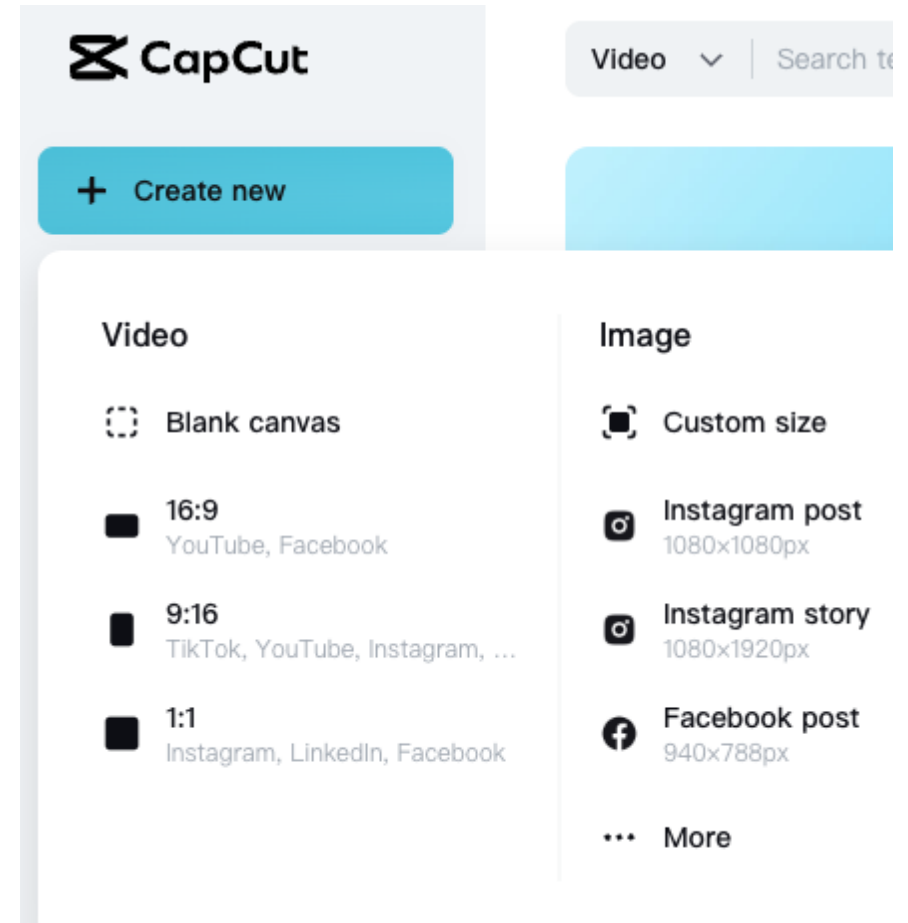


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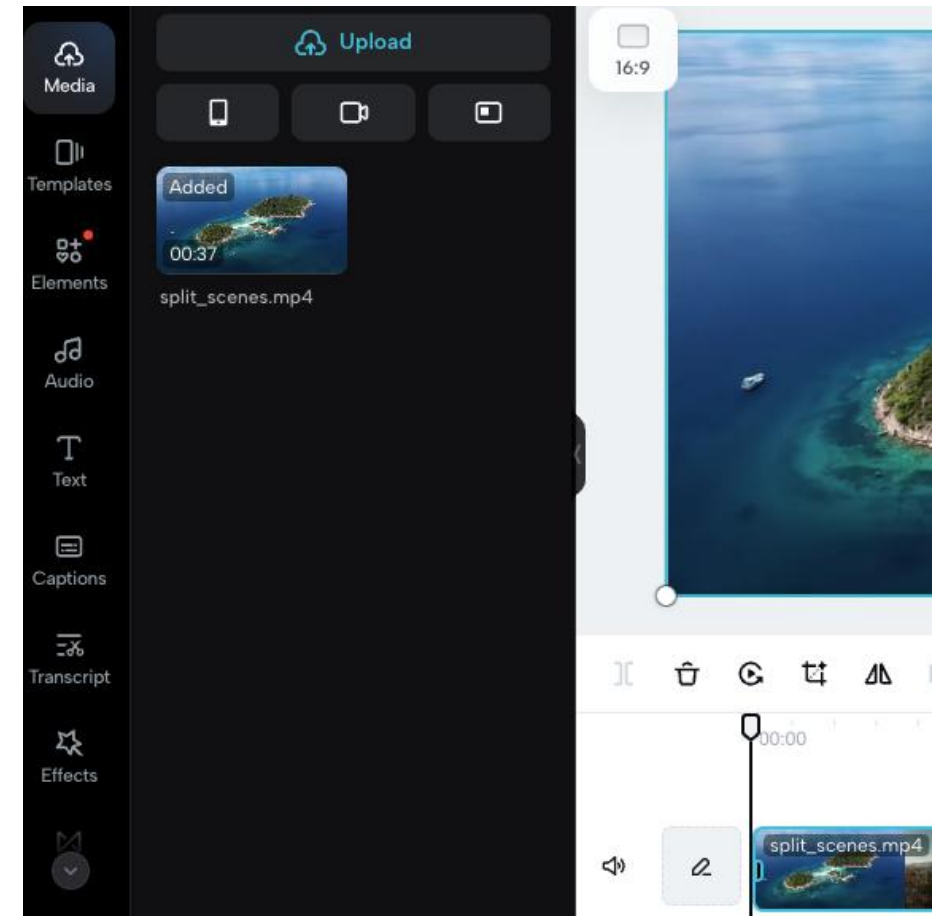
Automatic Scene Splitting

- Automatic Scene Splitting
 - Divide your video into multiple segments, trim each with a simple drag and drop, and arrange or replace them seamlessly on the timeline.
- Navigate to <https://www.capcut.com/> and log in with your account. Then, go to <https://www.capcut.com/my-edit> and create a new project.
- Drag the video into the timeline section.
- Right-click on the video and choose the "split scene" option.
- Refine in the timeline section. Rearrange or replace selected clips as new footage to tell your story.
- Transcribe your video.
- Export your video in high quality.



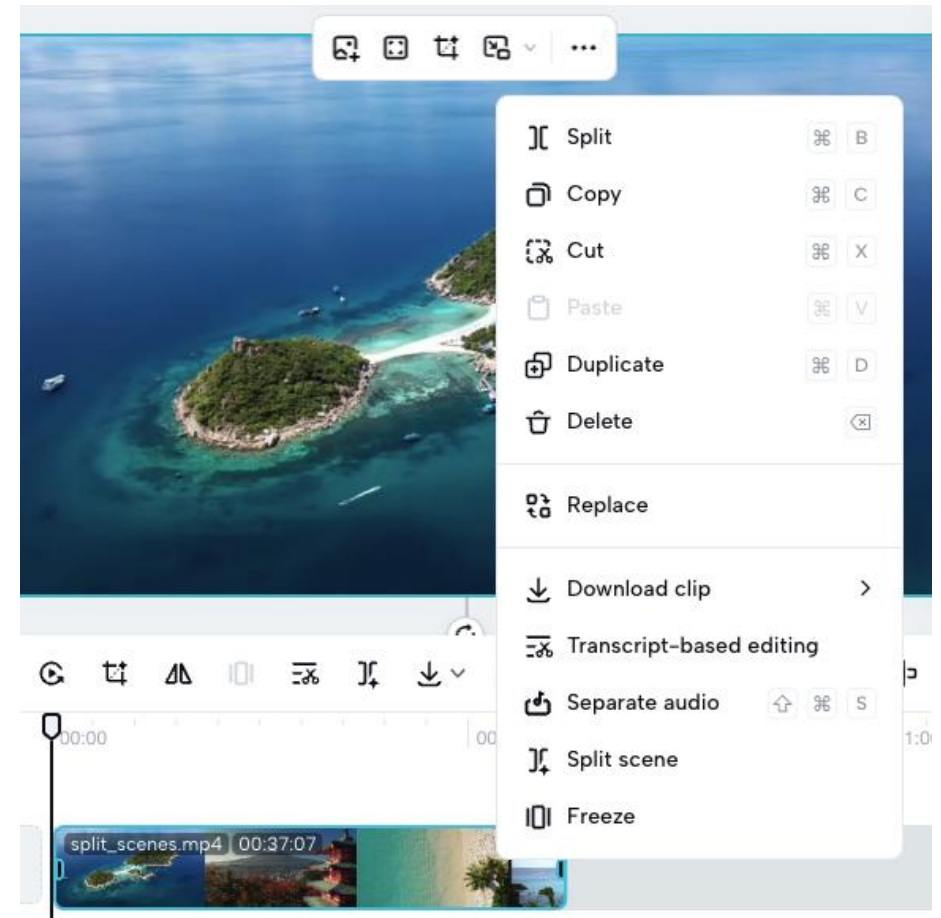
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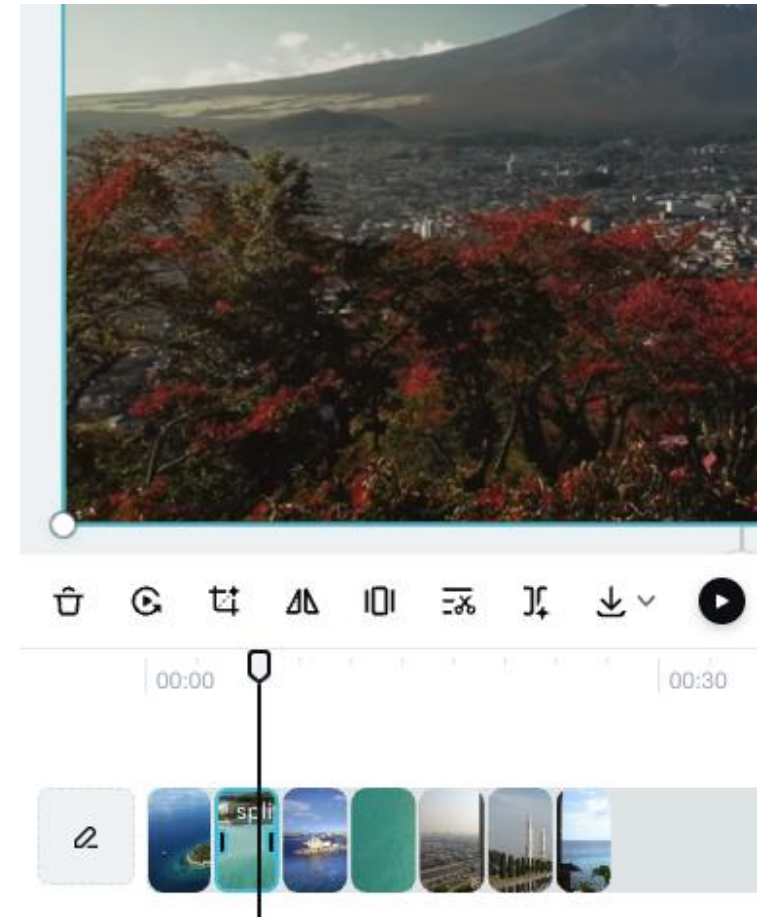
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- Right-click on the video and choose the "split scene" option.
 - The AI-based editor will automatically detect different scenes in your video and cut scenes seamlessly.
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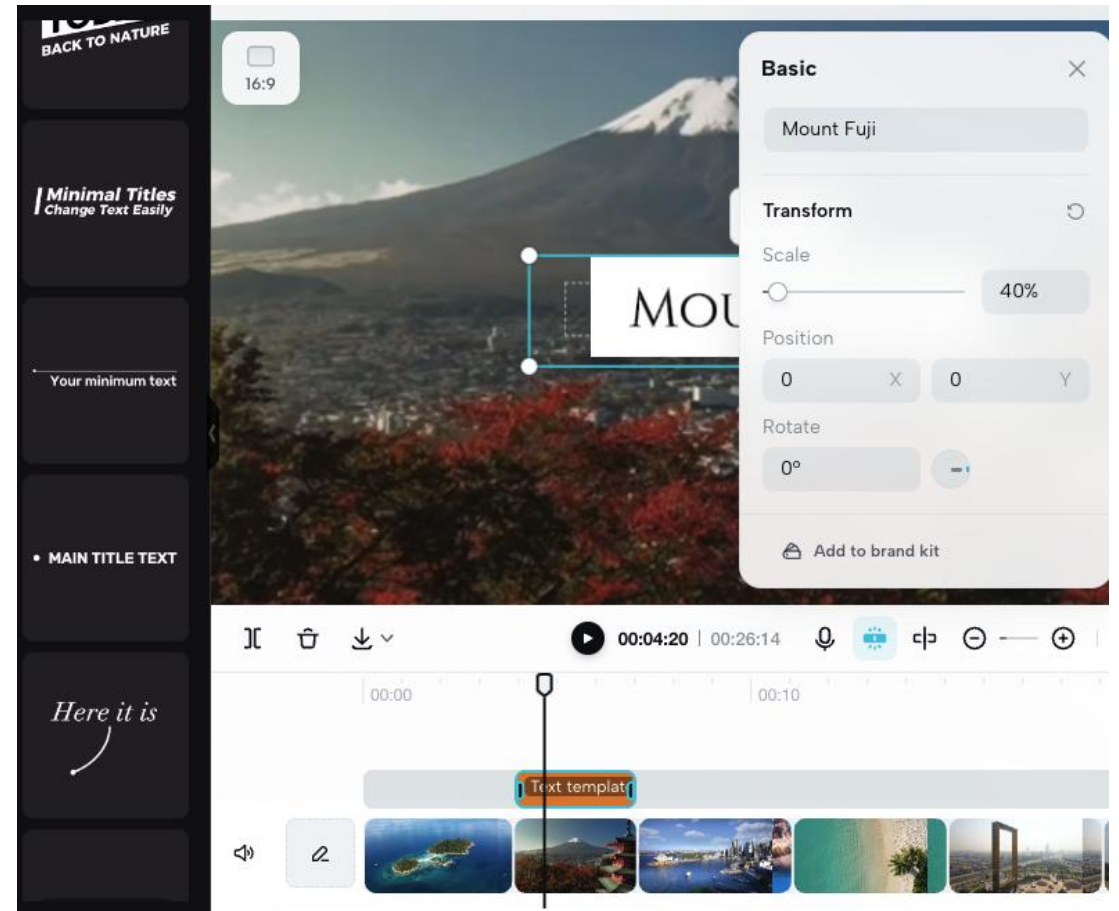
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- Transcript your video and edit it to captivate the global audience.
- Export your video in high quality, share it for review or as a presentation, or directly upload it on your favorite social media platform without any watermark.



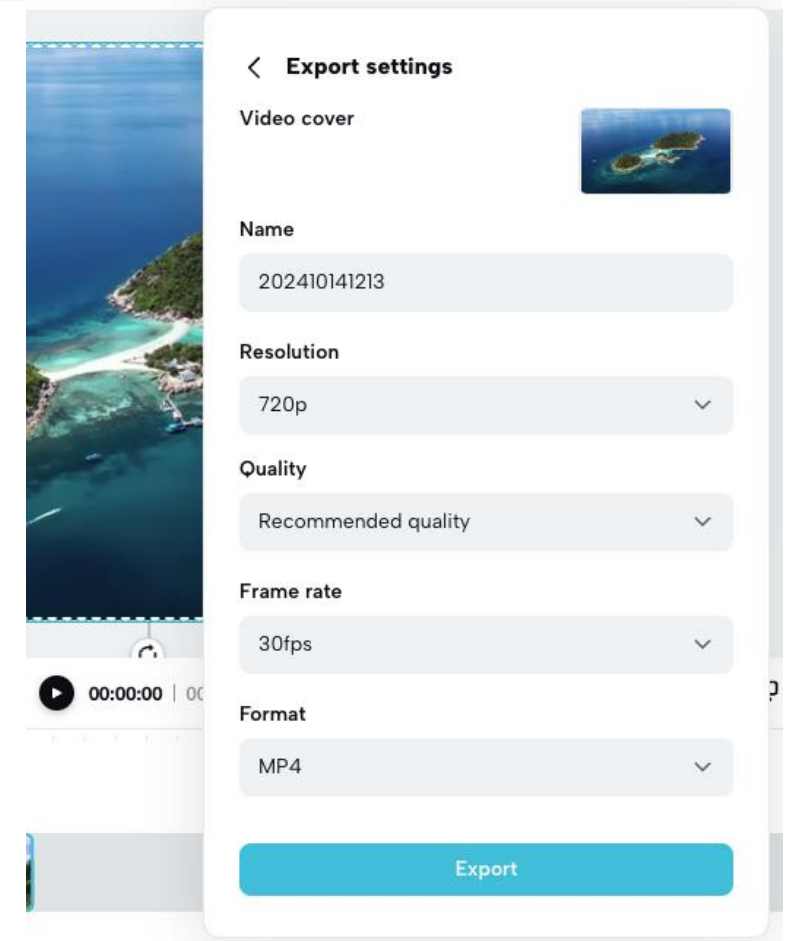
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- Right-click on the video and choose the "Split scene" option. Refine in the timeline section. Rearrange or replace selected clips as new footage to tell your story.
- **Transcript your video and edit it to captivate the global audience.**
 - Go to 'Text' > 'Auto Captions' and tap the 'Create' button in the 'Create captions' panel.
 - Type or paste your desired subtitles in the edit box under the 'Captions' tab.
 - Customize the added captions by adjusting text style, font, format, and color, or adding text effects and animations to the captions.
- Export your video in high quality.



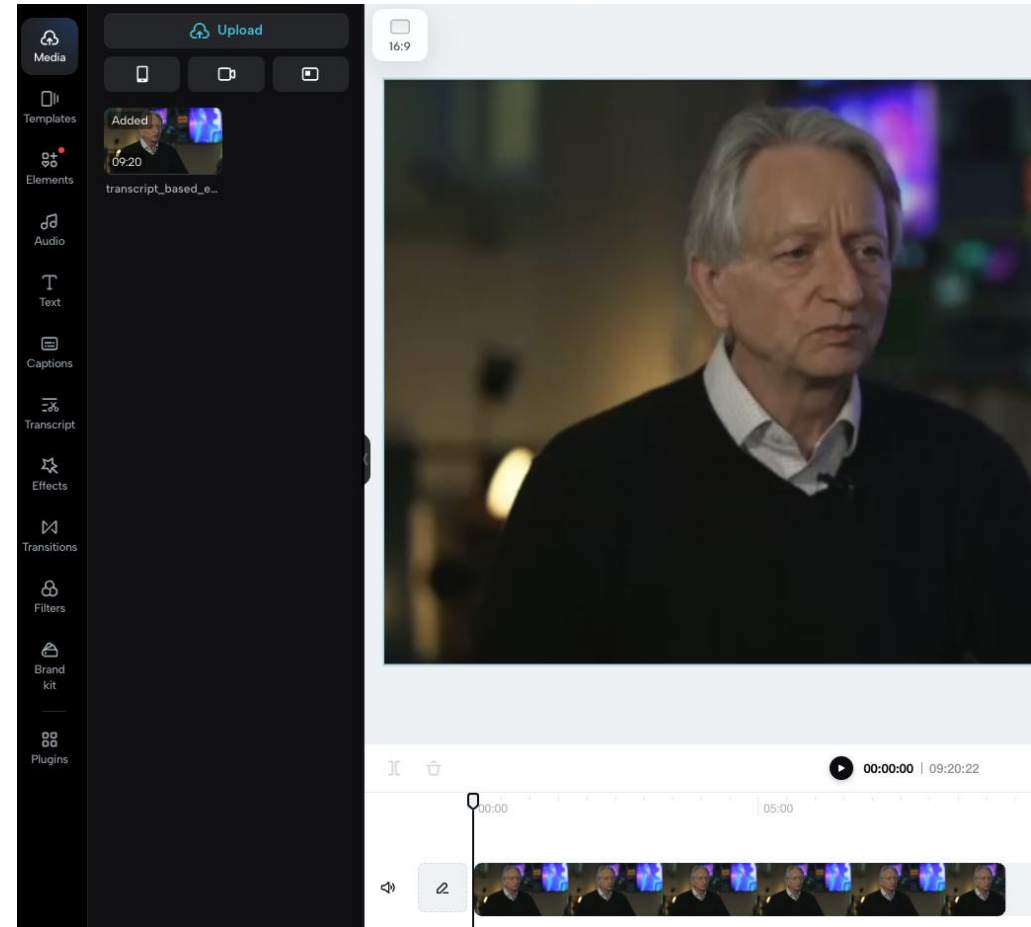
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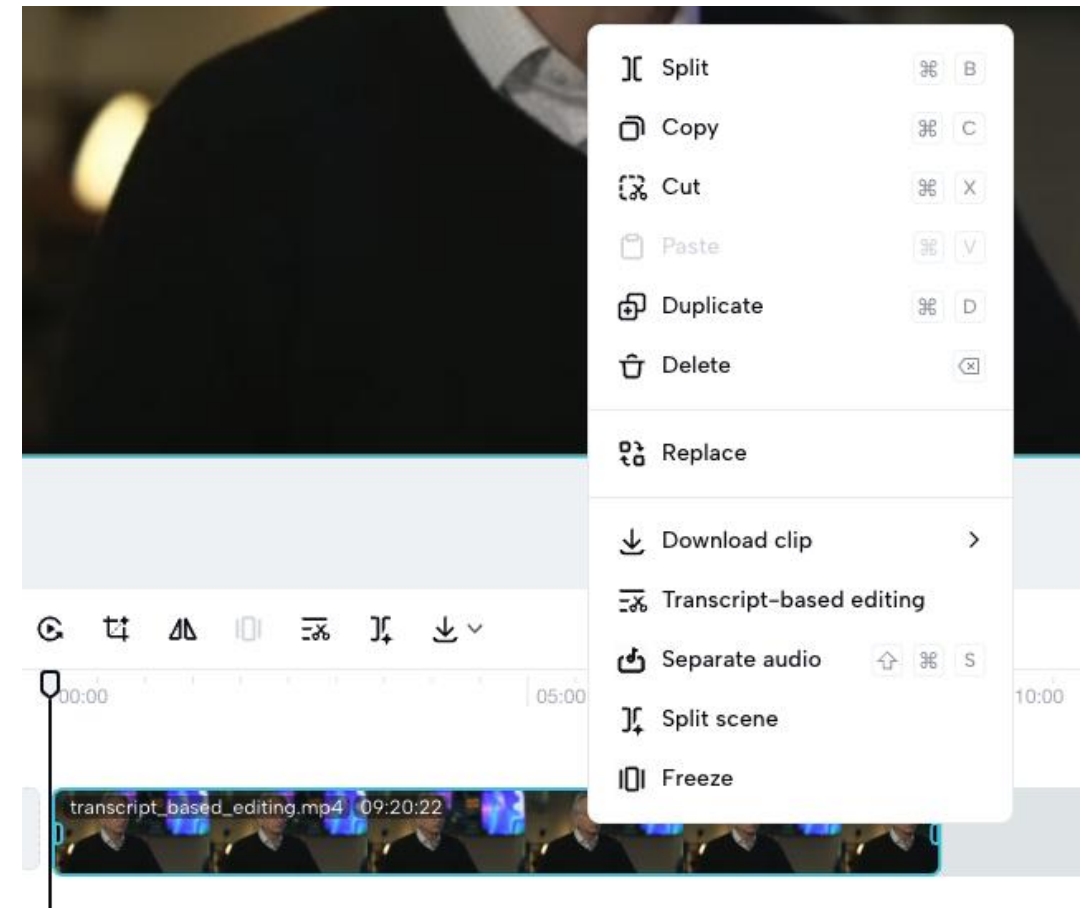
Transcript-based Editing

- Transcript-based Editing
 - With a focus on audio transcript and video transcription, this innovative tool lets you create and edit transcripts while seamlessly synchronizing changes with your video or audio content.
- Navigate to <https://www.capcut.com/> and log in with your account. Then, go to <https://www.capcut.com/my-edit> and create a new project.
- Drag the video into the timeline section.
- Right-click on the video or audio, and select "Transcript-based editing" to create a transcript in your preferred language.
- Edit the transcript from the left-sided panel to match your video's captions.
 - The editor will automatically recognize the filter words and speech gaps in your video or audio file.
 - Feel free to remove them when necessary.
- Export your video in high quality.



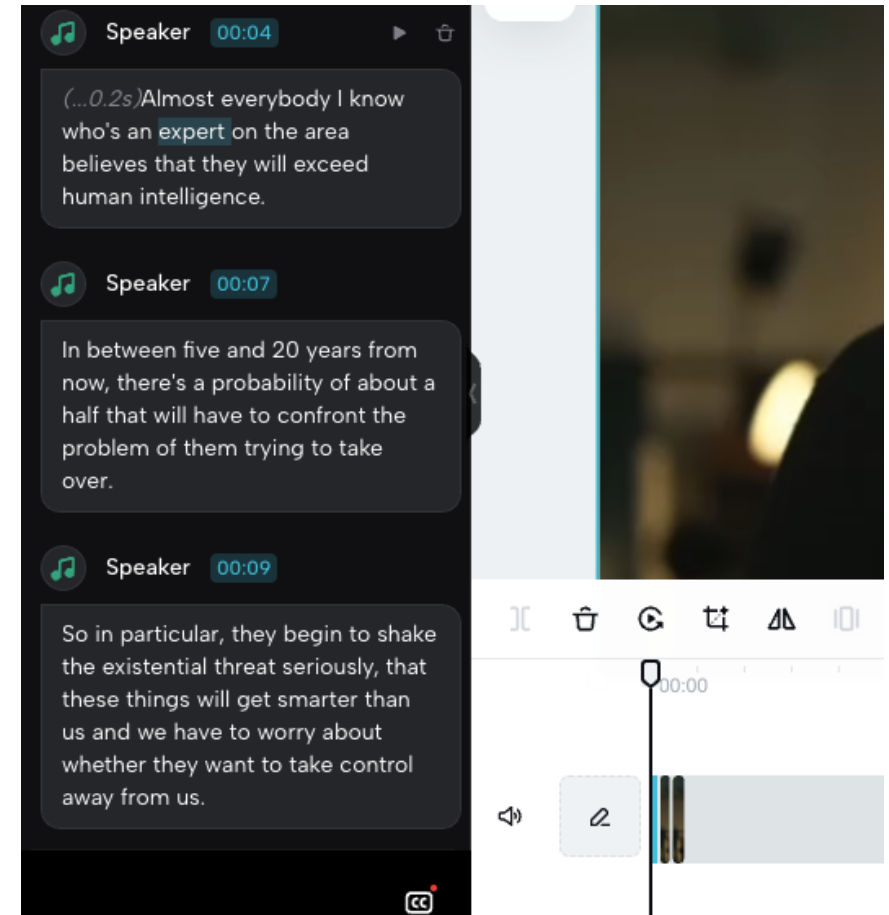
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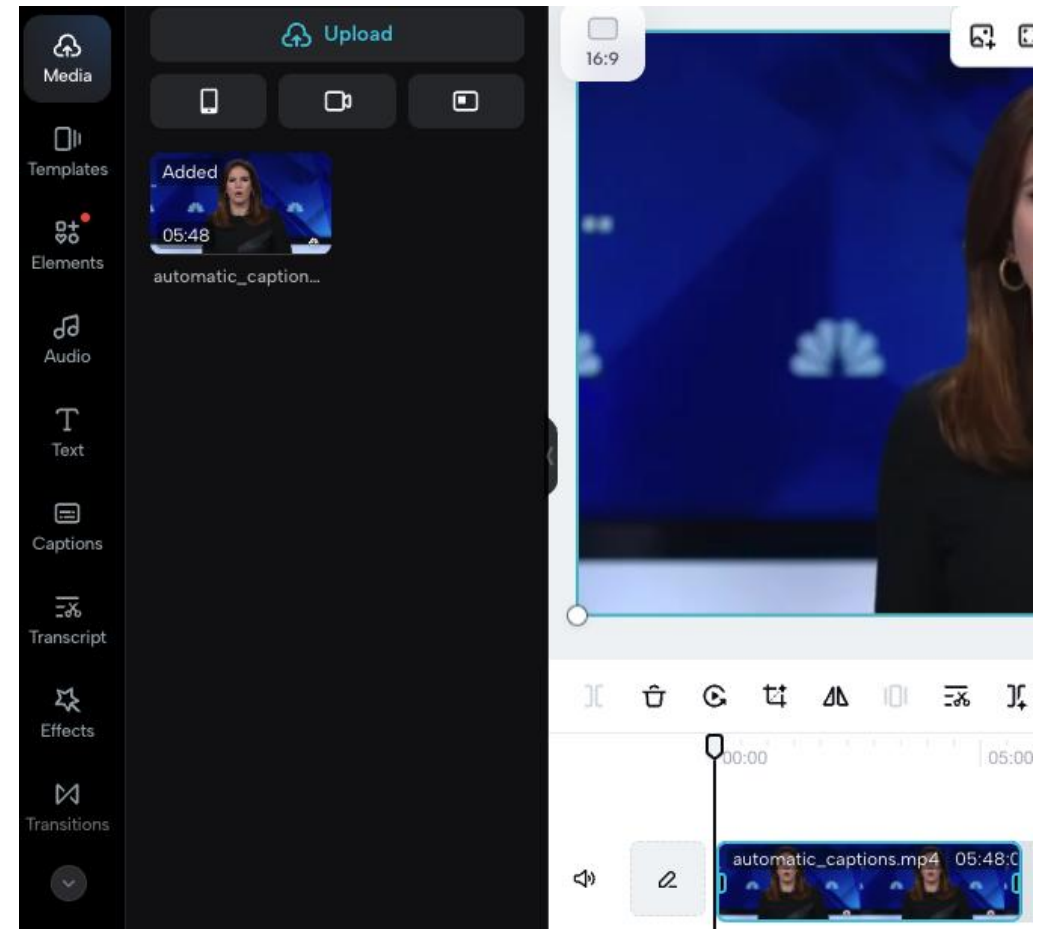
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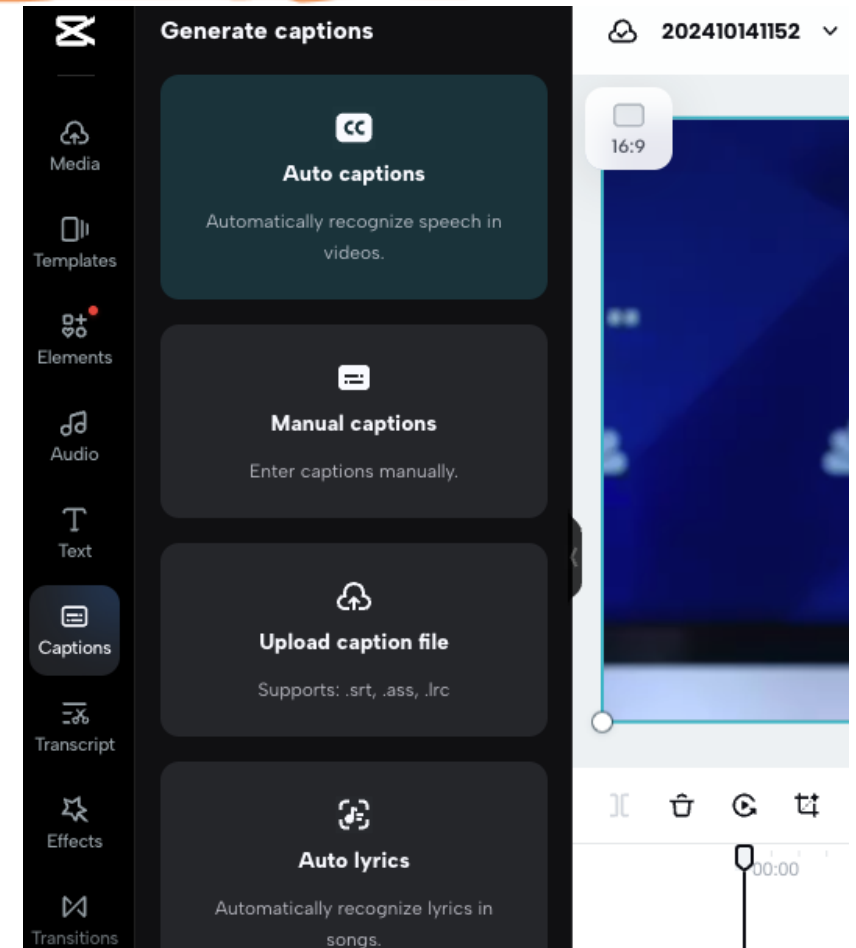
■ Subtitle Generator

- Subtitle Generator is a tool that automates the process of adding subtitles to video content. It significantly reduces the time and effort required for manual subtitle creation by accurately generating subtitles in minutes, enhancing the efficiency of video production workflows.
- Navigate to <https://www.capcut.com/> and log in with your account. Then, go to <https://www.capcut.com/my-edit> and create a new project.
- Drag the video into the timeline section.
- Go to "Text" -> "Auto captions", and click the Generate button.
- Customize the added captions by adjusting text style, font, format, and color, or adding text effects and animations to the captions.
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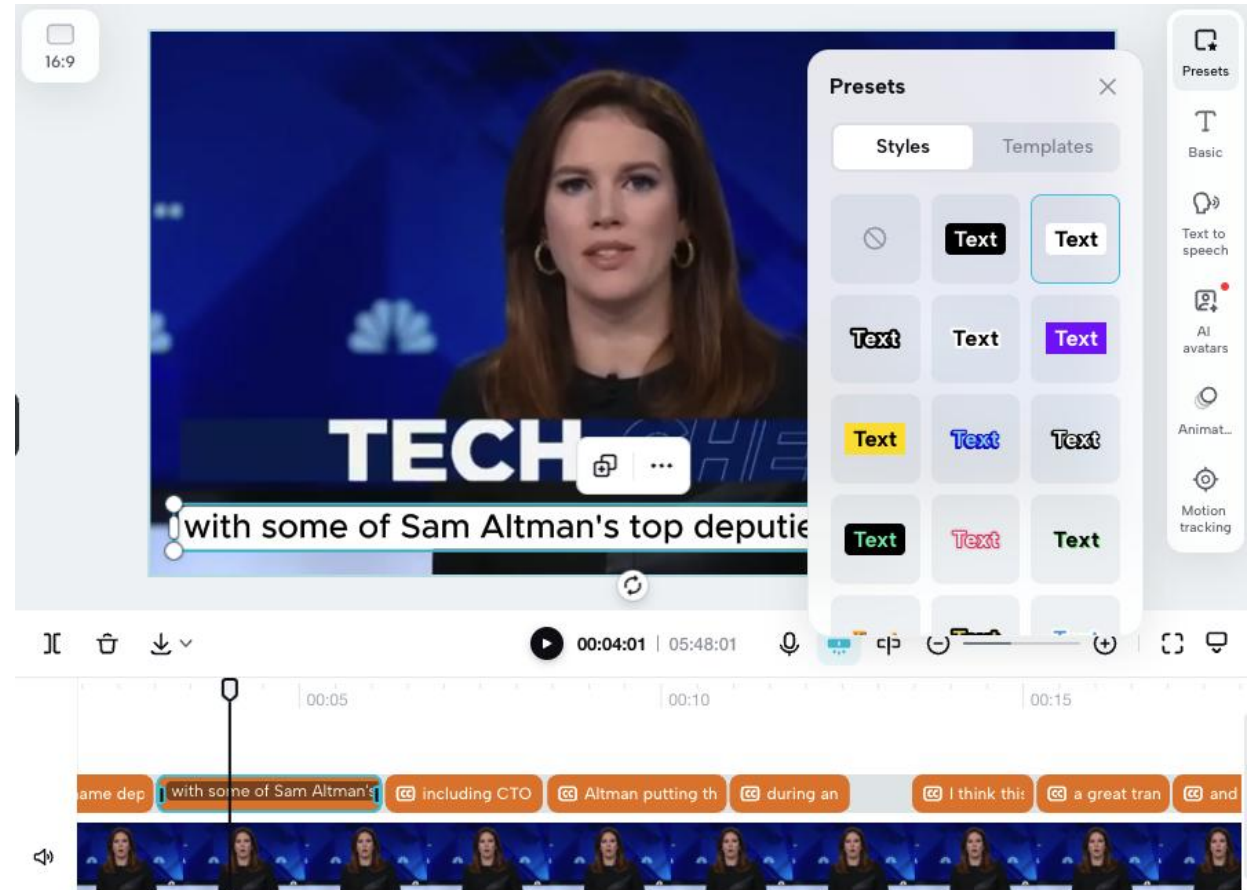
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Question Time!

Or See you next week!