

AI in working with video

Workshop #5



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WORKSHOPS FOR YOUNG PEOPLE “Technologies of tomorrow - combating disinformation and building security capacity in the use of artificial intelligence by young people” within the framework of the small-scale cooperation partnership project in the Youth sector of the Erasmus+ Program “Technologies of tomorrow - combating disinformation and building security capacity in the use of artificial intelligence by young people.”
(2023-1-ES02-KA210-YOU-000164824)

Agenda

1. Welcome and introduction
2. Introduction to AI in video processing
3. AI-generated scripts and screenplay analysis
4. Generative models for video creation
5. Inpainting and editing videos
6. Transformations with text-to-video, image-to-video, video-to-video
7. Q&A and discussion



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Introduction to AI in video processing



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Introduction to AI in video processing

- **What AI can do with video:** From creating new content to transforming and editing existing videos, AI has a wide range of applications in video processing.
- **Real-world applications:** AI is used in filmmaking, advertising, virtual reality, training simulations, and more.



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AI-generated scripts and screenplay analysis

- **Understanding AI-generated scripts:** AI can generate scripts by analyzing patterns in existing screenplays and creating new content that follows similar structures.
- **Tools we'll use:** We will be using scriptbook.io for script generation and analysis.



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Hands-on activity: Using scriptbook.io



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Using scriptbook.io

AI-generated scripts and screenplay analysis

- Objective: Learn how to generate and analyze scripts using AI.
- Access scriptbook.io: Go to the scriptbook.io website and log in.
- Generate a script: Follow the instructions to create a new script with the AI.
- Analyze the screenplay: Upload an existing screenplay or use the AI-generated one.
- Review elements like plot structure, character development, and emotional arcs.
- Discussion: How can these tools enhance scriptwriting? Share your thoughts and findings.



<https://www.scriptbook.io>



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Generative models for video creation



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Generative models for video creation

Basics of Content Generation

- **Exploring generative models:** AI can generate new video content by learning from a dataset of existing videos.
- **Tools we'll use:** We will be using Runway ML to experiment with generative models.



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Hands-on activity: Using Runway ML



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Using Runway ML

Content Generation

- Objective: Experiment with AI to generate new video content.
- Access Runway ML: Go to the Runway ML website and log in.
- Select a generative model: Choose a model that suits your video creation needs.
- Create a video: Follow the instructions to generate a video using AI.
- Review the outcome: Analyze the video and discuss its potential and limitations.
- Discussion: What are the strengths and weaknesses of using generative models for video creation?



<https://runwayml.com>



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Inpainting and editing videos



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Inpainting and editing videos

Not just creation

- **Learning inpainting techniques:** Inpainting allows you to remove or alter elements within a video.
- **Tools we'll use:** Runway ML also offers powerful inpainting tools for video editing.



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Hands-on activity: Editing with Runway ML



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Editing with Runway ML

Content Edition

- Objective: Utilize inpainting techniques to edit videos.
- Upload a video: Go to Runway ML and upload a video that you want to edit.
- Choose an inpainting tool: Select the tool that fits your editing needs.
- Edit the video: Follow the instructions to remove or alter elements in the video.
- Review the changes: Analyze the edited video and discuss its effectiveness.
- Discussion: How can inpainting be applied in professional video editing?
Share your insights.

<https://runwayml.com>



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Transformations with text-to-video, image-to-video, video-to-video



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Transformations with text-to-video, image-to-video, video-to-video

- **Understanding transformations:** Transformations allow you to convert text, images, or existing videos into new video content.
- **Tools we'll use:** Pika.art offers various transformation capabilities.



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Hands-on activity: Using Pika.art



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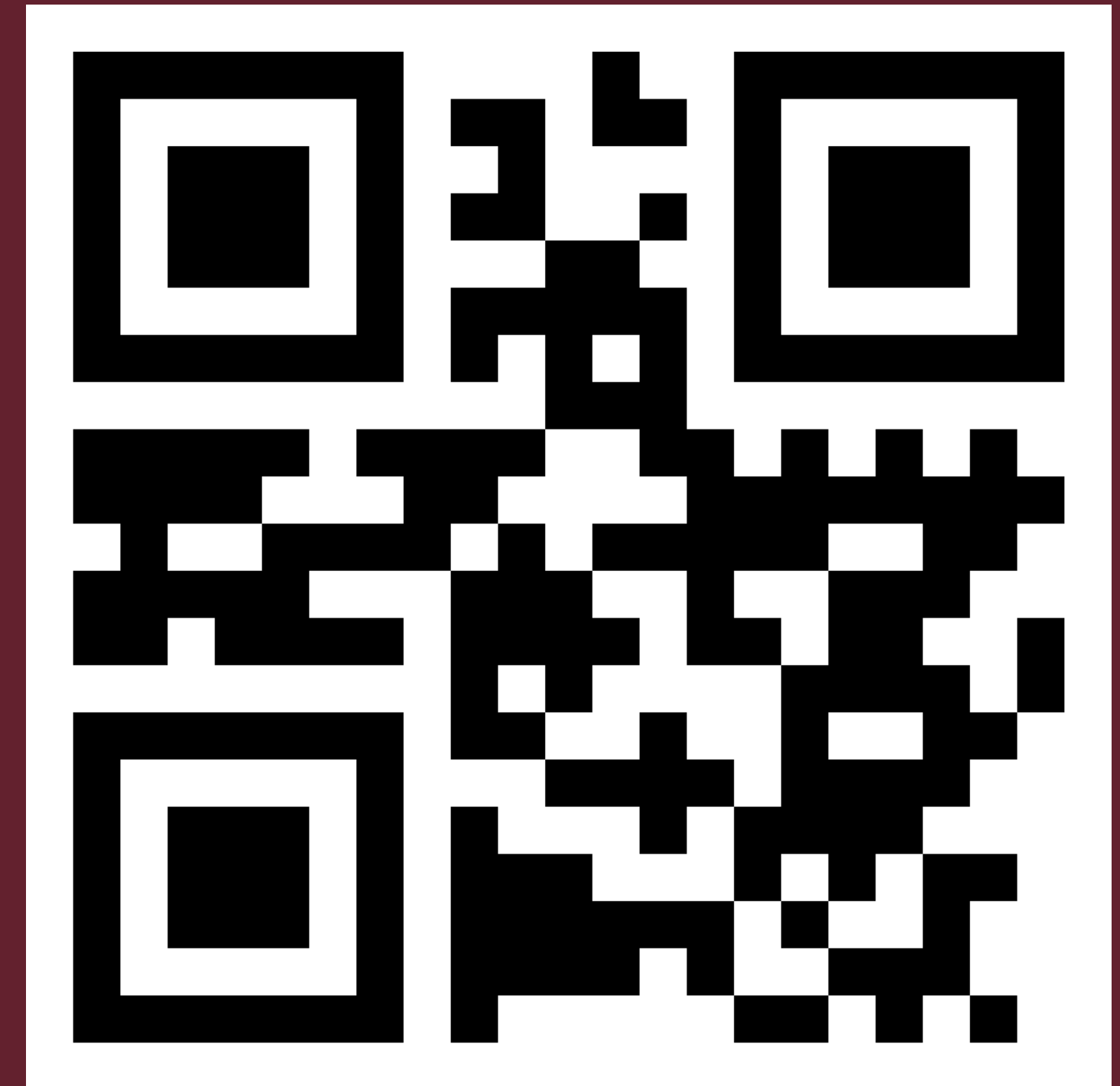
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Using Pika.art

Transformations

- Objective: Explore and apply different transformation techniques.
- Access Pika.art: Go to the Pika.art website and log in.
- Select a transformation type: Choose between text-to-video, image-to-video, or video-to-video.
- Generate the transformed video: Follow the instructions to create the transformed video.
- Review the results: Analyze the video and discuss its potential applications.
- Discussion: How can these transformations be used in your field? Share your thoughts.

<https://pika.art>



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Discussion points

Starting points for debate

- "Can AI truly be creative, or is it just mimicking human creativity?
What are the implications for artists and creators?"
- "What are the ethical considerations when using AI in video creation and editing?
How do we address issues like deepfakes and misinformation?"
- "How might AI in video production impact jobs in the film and media industry?
Are there ways to mitigate any negative effects?"
- "AI can significantly speed up video production processes, but does it compromise on quality?
How do we strike a balance?"
- "What do you envision as the future of AI in video production?
What are the most exciting and concerning trends?"



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Thank you



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