



# Virtual Production



In-camera  
visual effects  
(ICVFX)







What is New in 3D and AI

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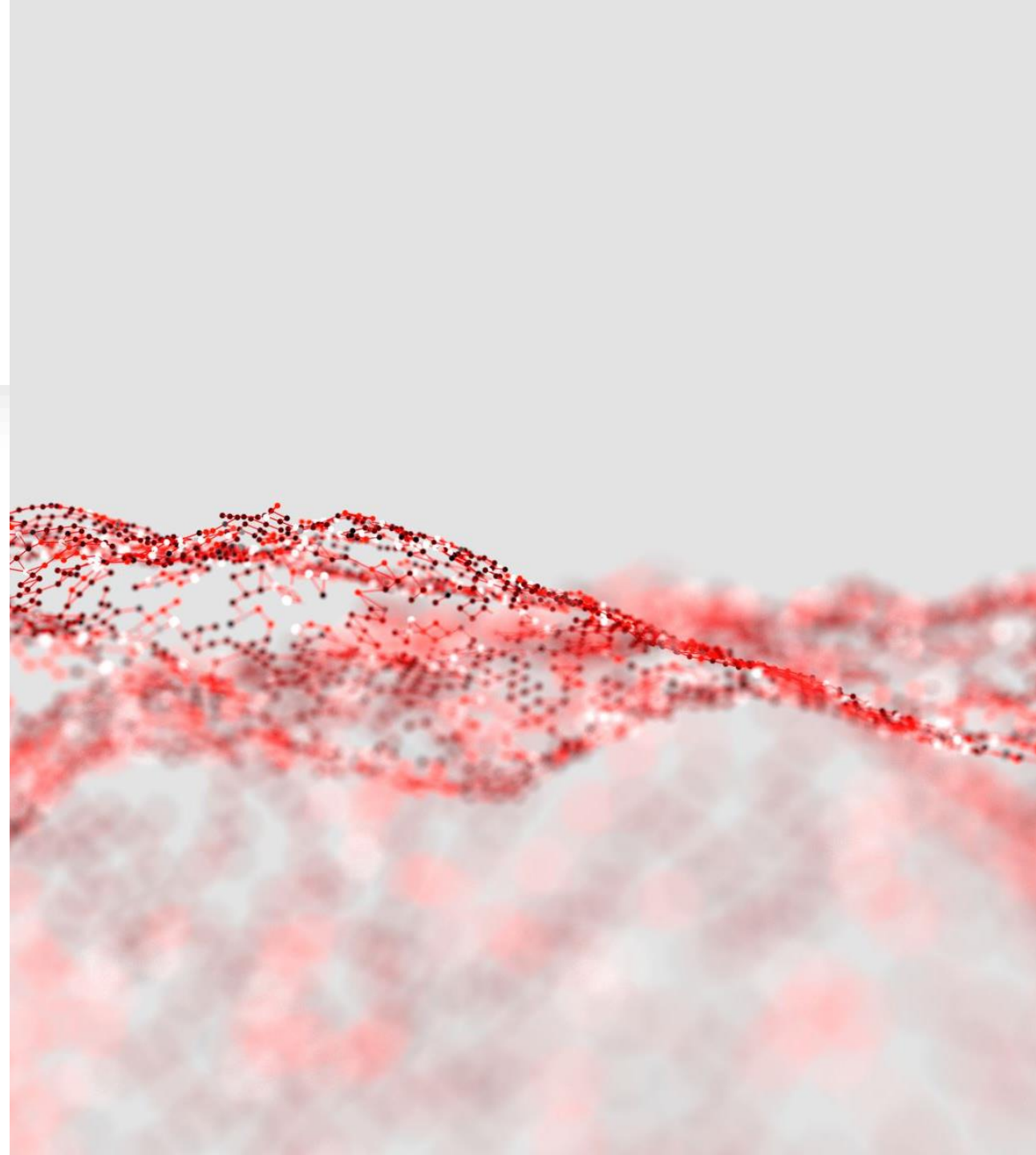
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# AI Tool

- Spaces The AI App Directory

# Generative 3D Models

- Text to 3D and Video to 3D models
- High fidelity meshes from diffusion models
- Large datasets like Objaverse-XL



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# Gaussian Splatting 2.0

- 4D splats with motion
- Editable splats (paint, sculpt, relight)
- Realtime XR integration

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# NeRF + 3DGS Hybrids

- Combines NeRF quality with Gaussian speed
- Ideal for XR and VP pipelines

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# 3D

- 3D gaussian splatting / Nerfstudio ( polycam, Luma AI, postshot, Kiri Engine,
- 2D Gaussian Splatting
- 4D gaussian splatting
- Odyssey.world
- Sam3d
- Worldlabs.ai
- Hunyuan3D-2
- Luma's new Text to 3D
- Tripo AI
- Google's 3DGS Avatar models
- Wonderdynamics
- Volinga.ai

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- [Backflip.ai](#)
- [Anything.worl](#)
- [Skyboxai.net](#)
- [Csm.ai](#)
- [hitem3d.ai](#)
- [Genie 2](#)
- [Spline.design](#)
- [Genesis-Embodied-AI](#)
- [Meshy3D](#)
- [SF3D](#)
- [ZoeDepth](#)



# AI Motion & Animation

- Diffusion-based motion
- Automated retargeting
- Physics + AI blending

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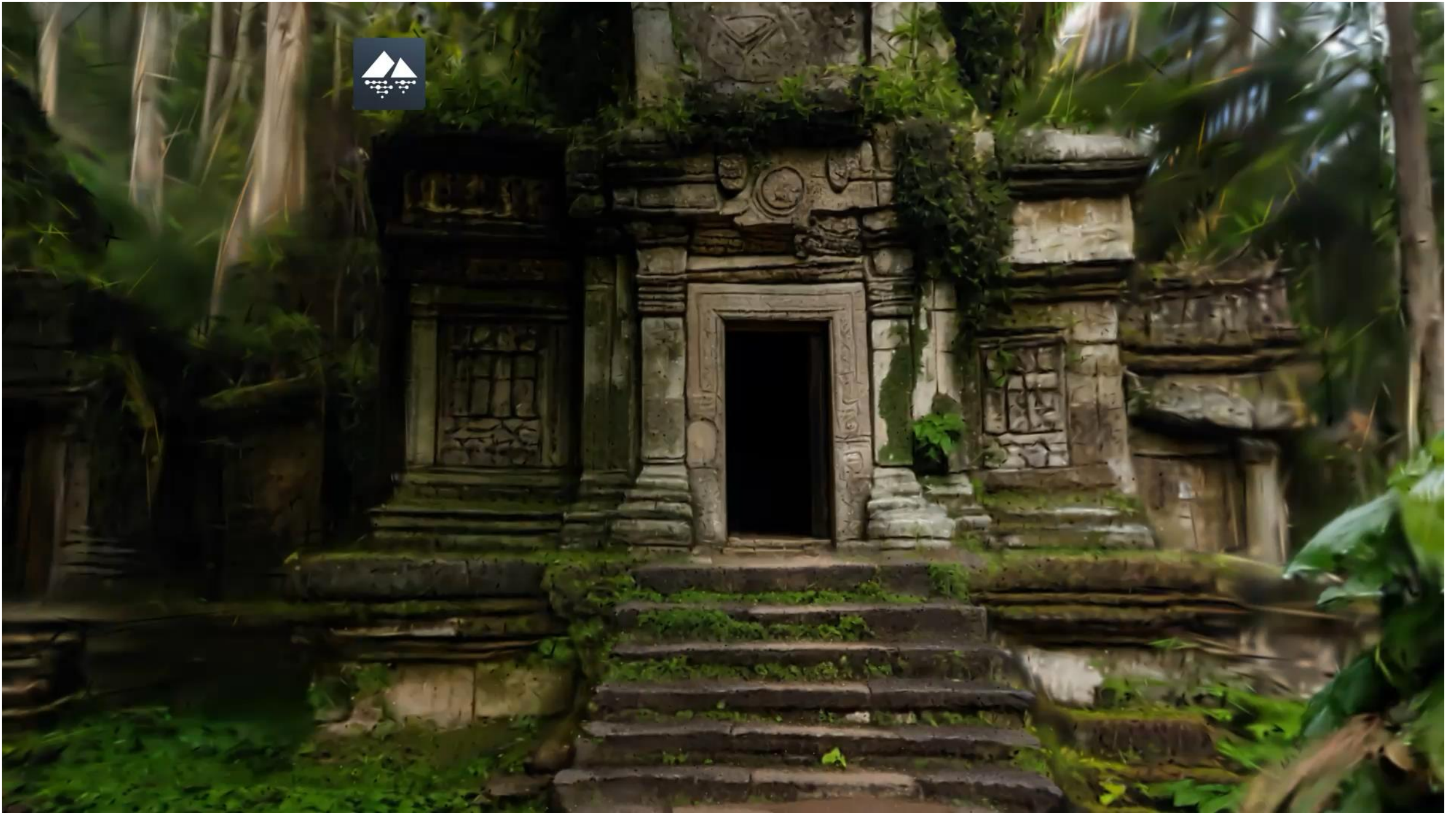
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# Motion

- Move.ai
- Deepmotion
- Meshy3D
- LivePortrait

# 3D gaussian splatting





# **Volinga x XGRIDS:** Faster, Easier, Photoreal 3DGS

**From real-world scan to production-ready scene**

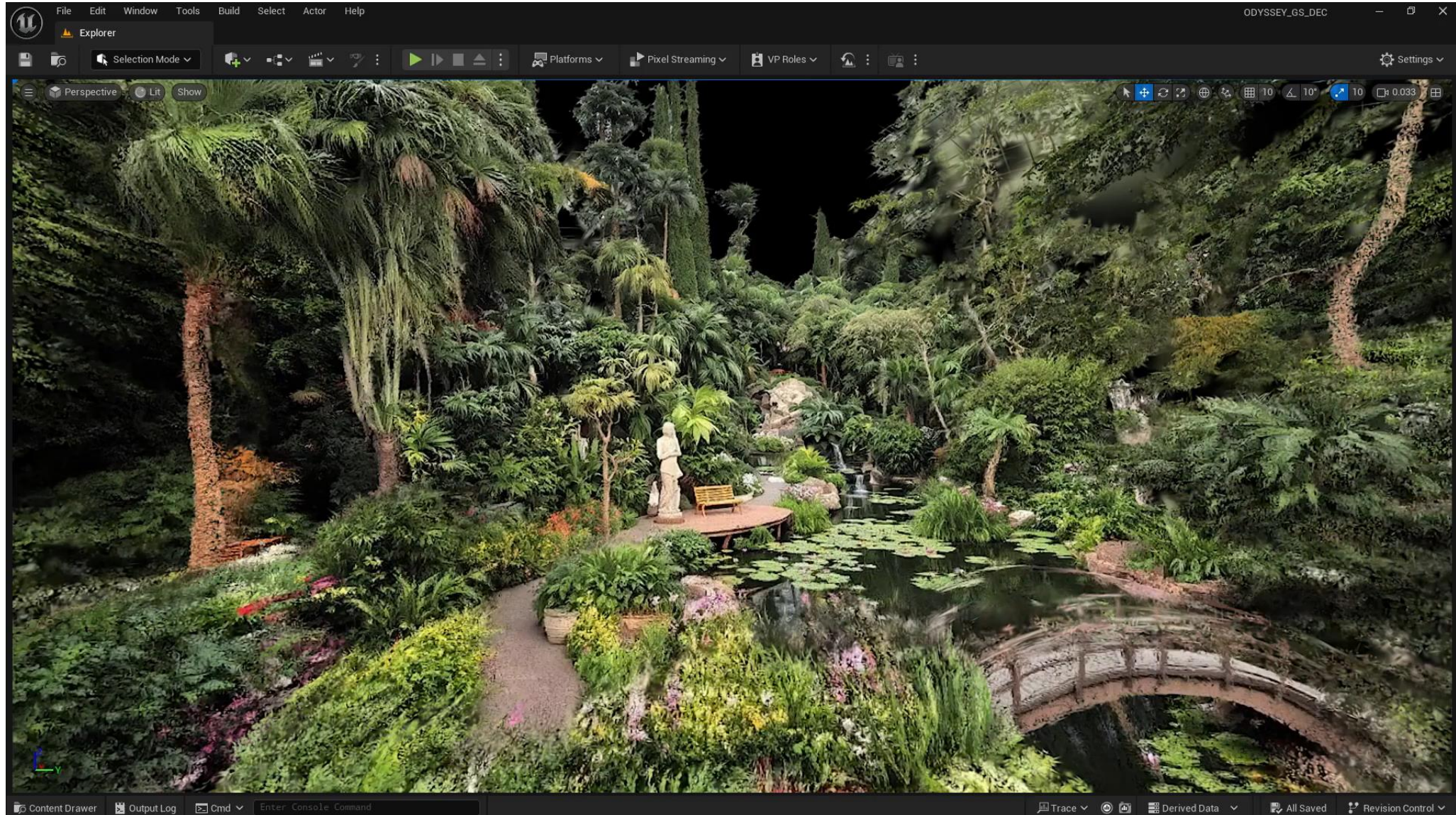




# 4D gaussian splatting



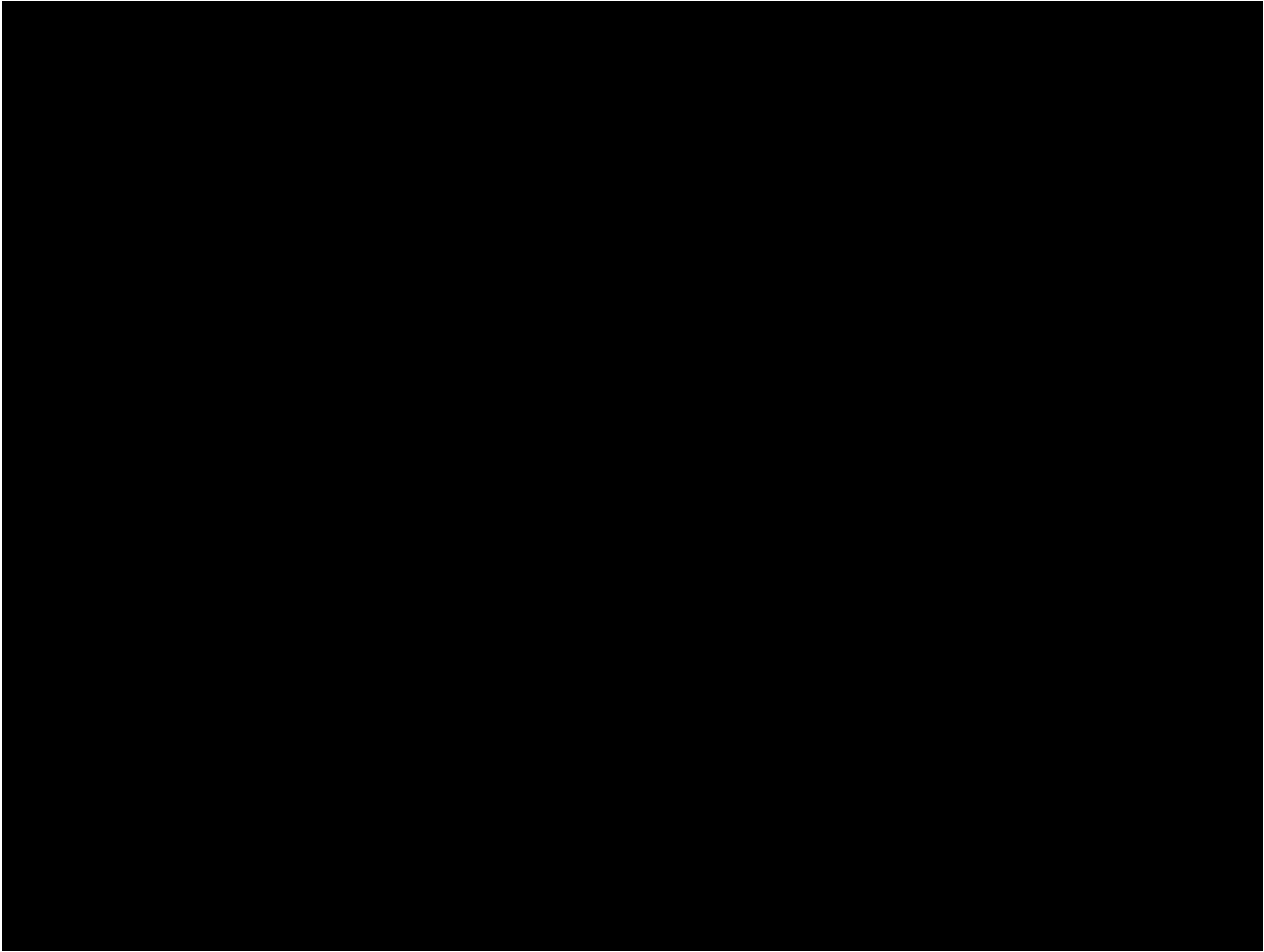
# Text to 3D





# Relight gaussian splatting





# Physics







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Upscaling Factor

1x 1.5x 2x

Framerate

30fps 60fps 120fps

Upscaling

Active ^

Prompt

The video features a 3D animated character, a small, round, bearded man with a hat and suit, who appears to be dancing or

Strength

0.20

Resemblance

0.80

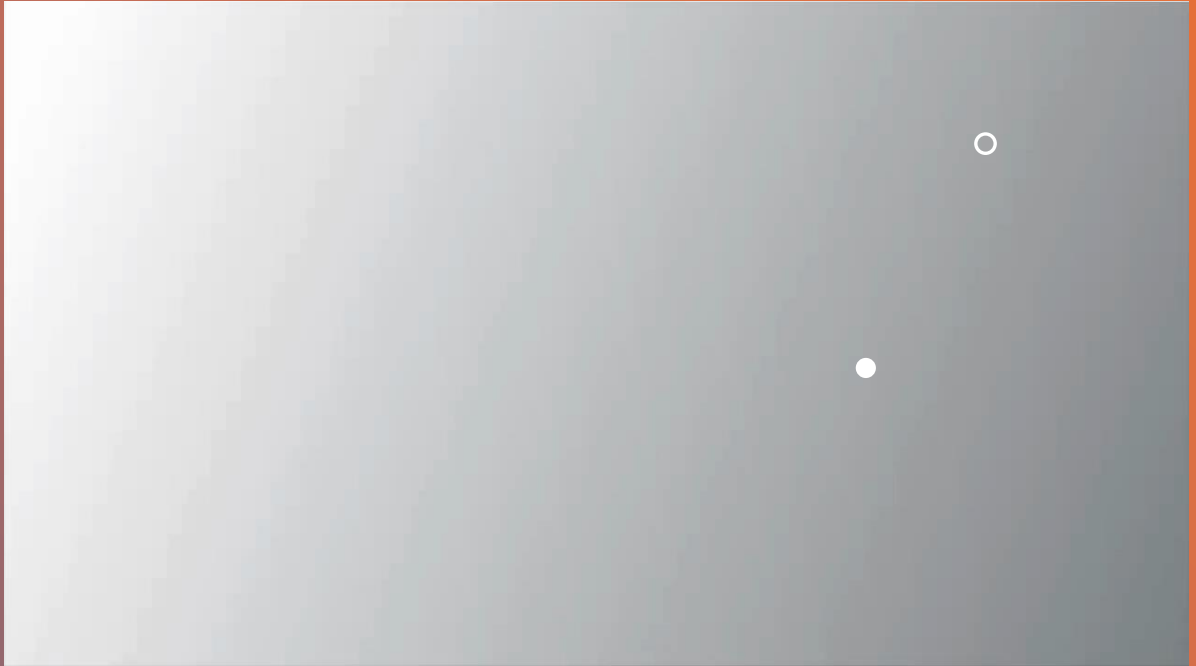
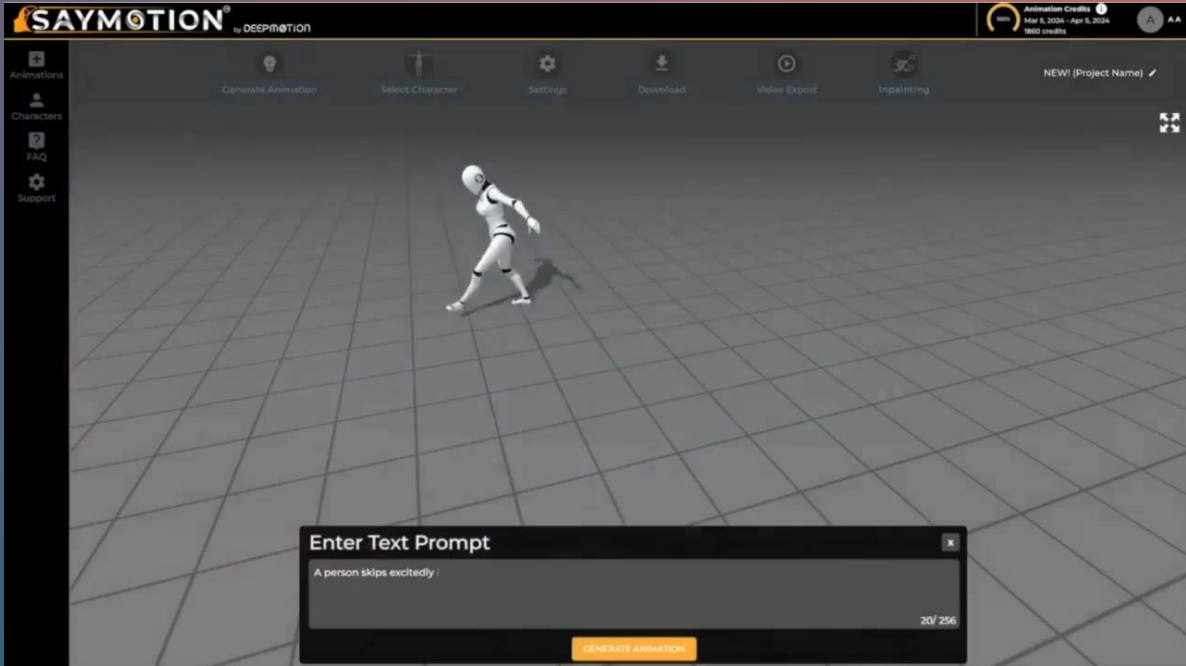
Preset

Animation v

Looped

Enhance

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# Realtime Video Diffusion

- LCM / Turbo / SVD models
- Temporal consistency improvements
- Realtime generation on GPUs

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# Video

- Bith.ai
- Invideo.io
- Ltx.studio
- Comfyui
- Stable diffusion
- Wonderdynamics
- Veo2
- Sora
- Runway