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NVIDIA Cosmos

An open platform for physical AI with world foundation models (WFMs), video data processing libraries, video evaluation, and post-training frameworks.

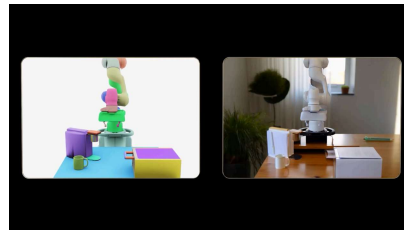
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World Foundation Models

Open Models for World Generation and Understanding



Cosmos Predict

Leading world generation model, adaptable to any physical AI task or environment.

Generate 30s predictive video worlds from text, image, or video with 2B/14B models, or post-train on your data to create custom edge cases, closed-loop policies, and multiview, robot-centric simulations.

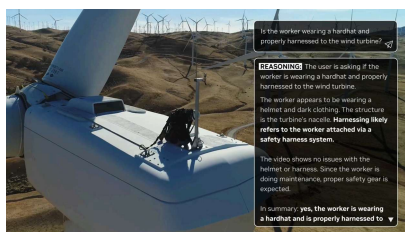
[Get Started on GitHub](#)

Cosmos Transfer

Multicontrol model for simulation to photoreal transformation.

Pair with physical AI simulation frameworks, such as CARLA or NVIDIA Isaac Sim™, to accelerate synthetic data generation across various environments and lighting conditions.

[Get Started on GitHub](#)



Cosmos Reason

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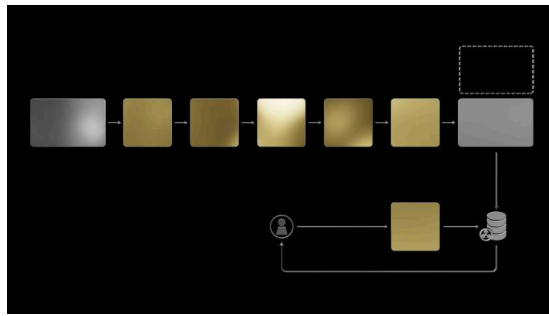


traffic monitoring, logistics, quality inspection, and physical AI.

[Get Started on GitHub](#)

Data Processing and Evaluation

Speed up efficient dataset processing and evaluation.



Cosmos Curator

Quickly filter, annotate, and deduplicate large amounts of sensor data with Cosmos Curator.

[Download Cosmos Curator on GitHub](#)

Cosmos Dataset Search

Instantly query datasets and retrieve scenarios with NVIDIA Cosmos Dataset Search (CDS).

[Try Cosmos Dataset Search](#)

Cosmos Evaluator

Review and score generative video outputs at scale using Cosmos Evaluator.

[Download Cosmos Evaluator on GitHub](#)

Use Cases

How Cosmos Accelerates AI Across Industries

[Robot Learning](#)

[Autonomous Vehicle Training](#)

[Video Analytics AI Agents](#)

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transfer

- > Post-train Cosmos Reason using the [Cosmos RL](#) framework to build vision-language-action (VLA) models
- > Create an end-to-end synthetic data augmentation and evaluation pipeline using the [Physical AI Data Factory Blueprint](#) built on Cosmos

[See Examples](#)

Starting Options

Get Started With NVIDIA Cosmos

1

Ready to build? Access open models and code directly.

[View GitHub](#)

2

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Need help? Start quickly with our hands-on model recipes.

[Browse Cookbook](#)

AI Infrastructure

Get the Best Performance With NVIDIA Blackwell

NVIDIA RTX PRO 6000 Blackwell Series Servers accelerate physical AI development for robots, autonomous vehicles, and AI agents across training, synthetic data generation, simulation, and inference.

Unlock peak performance for Cosmos world foundation models on NVIDIA Blackwell GB200 for industrial post-training and inference workloads.

[Learn More](#)

Ecosystem

Adopted by Leading Physical AI Innovators

Model developers from the robotics, autonomous vehicles, and vision AI industries are using Cosmos to accelerate physical AI development.

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Next Steps

Join the Cosmos Community

Connect with Cosmos experts, engage with fellow developers, provide model feedback, and access continued learning through livestreams and recipes.

[Join Now](#)

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Build Video Analytics AI Agents

Use Cosmos Reason with NVIDIA Blueprint for video search and summarization (VSS) to build AI agents for scalable, real-time video understanding.

[Try now](#)

Resources

The Latest From Cosmos Developers

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ABB Robotics, Kion Group AG, Skild AI

March 26, 2026

Into the Omniverse: NVIDIA GTC Showcases Virtual Worlds Powering the Physical AI Era

Editor's note: This post is part of Into the Omniverse, a series focused on how developers, 3D practitioners, and enterprises can transform their workflows using the latest advances in OpenUSD and NVIDIA Omniverse. NVIDIA GTC last week showcased a turning point in physical AI: Robots, vehicles and factories...

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March 18, 2026

From Simulation to Production: How to Build Robots With AI

The latest open models and frameworks from NVIDIA bring together simulation, robot learning and embedded compute to accelerate cloud-to-robot workflows.



March 16, 2026

Using Simulation to Build Robotic Systems for Hospital Automation

Healthcare faces a structural demand-capacity crisis: a projected global shortfall of ~10 million clinicians by 2030, billions of diagnostic exams annually with...

Frequently Asked Questions

What's new in NVIDIA Cosmos WFMs?



What is the licensing model for Cosmos world foundation models?



How do I post-train Cosmos models for my downstream applications?



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What is the difference between Cosmos and Omniverse?

Products & Technologies

- [NVIDIA DGX Cloud](#)
- [NVIDIA NeMo Framework](#)
- [NVIDIA NIM Microservices](#)
- [NVIDIA Omniverse](#)

Resources

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