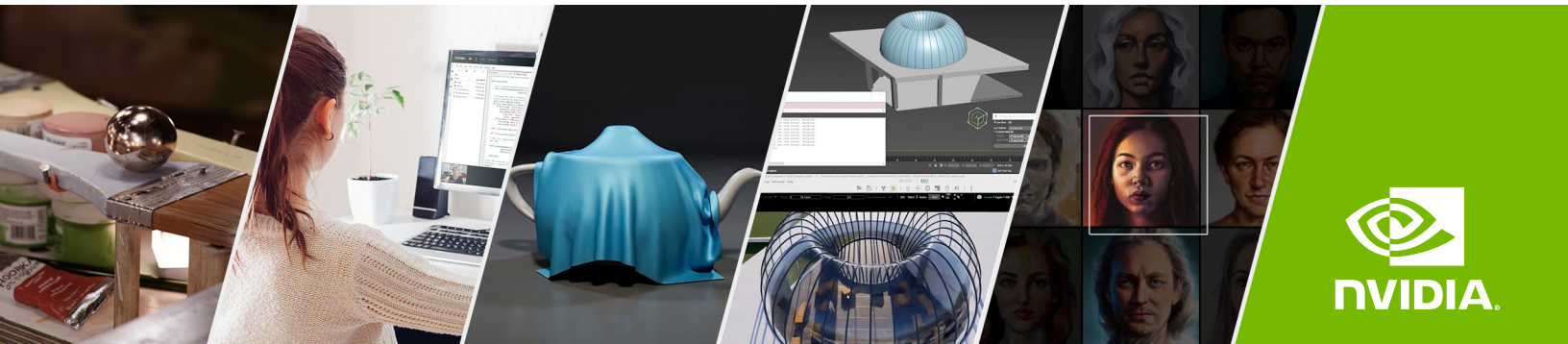


# COMPUTER GRAPHICS ESSENTIALS FOR STUDENTS AND EDUCATORS



If you're interested in learning or teaching the tech behind accelerated graphics, you've come to the right place. NVIDIA has incredible resources, tutorials, and training tools to build the AI and software foundations you'll need to thrive in today's world of computer graphics.

## VIDEOS

### Watch AI and Accelerated Graphics Videos On-Demand to Kick Things Off

These 101 sessions cover how to get started in the game and film industries, and develop skills in collaborative design, ray tracing, real-time rendering, animation/VFX, and more.

- > Deep Learning Demystified [Watch Video](#)
- > How GPU Computing Works [Watch Video](#)
- > A New Era in Virtual Cinematography [Watch Video](#)
- > Introduction to RTX Technology and the Omniverse Platform [Watch Video](#)
- > Making 3D Content Creation Fast and Easy for Creatives by Using VR and ML [Watch Video](#)
- > From Storytelling to StoryLiving: A Vision for the Future of Immersive Entertainment [Watch Video](#)
- > Ray Tracing in One Weekend [Watch Video](#)
- > When Creative AI Meets Conversational AI [Watch Video](#)

### Design 3D Virtual Worlds with NVIDIA Omniverse

NVIDIA Omniverse is an open platform for virtual collaboration and real-time simulation that lets students, developers, and artists create photorealistic, physically accurate designs quickly and easily. Need help getting started? Check out a few of our most popular Omniverse sessions and [tutorials](#).

- > Introduction to RTX Technology and the Omniverse Platform [View Session](#)
- > Building Omniverse Kit Apps and Extensions [View Session](#)
- > See more tutorials created by our community of artists [Watch Now](#)

## TRAINING AND WORKSHOPS

### NVIDIA Deep Learning Institute at SIGGRAPH

Gain new skills with technical training in AI and graphics with these free courses.

- > **Fundamentals of Ray Tracing Development using NVIDIA Nsight Graphics and NVIDIA Nsight Systems**  
In this two-hour workshop, you'll learn how to use NVIDIA® Nsight™ graphics to profile and optimize 3D applications.  
[Watch Now](#)
- > **Omniverse 101: Introduction to Universal Scene Description for Collaborative 3D Workflows**  
Get an introduction to Universal Scene Description (USD), hands-on exercises consisting of training videos accompanied by live scripted examples, and an overview of USD scene composition using Python.  
[Watch Now](#)

## MORE DLI COURSES [View Here](#)

Complete Deep Learning Institute (DLI) online courses to earn certificates of subject matter competency to support career growth, and content to help university educators incorporate training on GPU technology into their curriculum and deliver AI-ready materials. DLI's instructor-led workshop teaches the fundamentals of deep learning through hands-on exercises in computer vision and natural language processing.

- > Fundamentals of Deep Learning (North America/Latin America, conducted in English), Aug 25, 2021, 9:00 a.m.–5:00 p.m. PDT, UTC-7. [Register Now](#)

Receive 25% off DLI Fundamentals of Deep Learning workshop scheduled in August and September. Use code **DLI\_SIGGRAPH21**

## For Students

Whether you're studying video production, computer animation, or game design, you need the right technology to excel. NVIDIA Studio laptops are packed with RTX GPUs to give you the power to create extraordinary work faster than ever.

- > **Studio Laptops for Students:** unleash your passion in and out of the classroom
- > Learn new techniques on our [NVIDIA Studio Creator-focused Youtube Channel](#)

## For Educators

NVIDIA DLI Teaching Kits make it easier to add AI, 3D graphics, and GPU computing into coursework with downloadable teaching materials and online courses. The kits also include electronic versions of DLI published books.

- > Graphics and Omniverse Teaching Kit [Register Early Access](#)
- > Data Science Teaching Kit [Request Access Here](#)
- > Deep Learning Teaching Kit [Request Access Here](#)
- > Ray Tracing Gems II [Enter to Win the Book](#)
- > Learning Deep Learning by DLI [Order Book Here](#)
- > Studio Education Program [Learn More](#)

## For Everyone

Discover the beauty and insight of AI creations in visual art, music, and poetry by exploring these fun, intriguing projects.

- > AI Playground [Explore Research](#)
- > AI Art Gallery [Visit Gallery](#)
- > Artist Talks [View Playlist](#)

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