Seminar on Nvid

Introduction

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professional AI and visual computing from anywhere Accelerated networks for modern workloads Software-defined hardware accelerators for networking, storage, and security Ethernet performance, availability, and ease of use across a wide range of applications High-performance networking for super computers, AI, and cloud data centers Networking software for optimized performance and scalability IO subsystem for modern, GPU-accelerated data centers A Grace Blackwell AI Supercomputer on your desk Accelerate innovation and productivity in AI workflows Powerful AI, graphics, rendering, and compute workloads Accelerate professional AI and visual computing from anywhere Simplify AI development with NVIDIA AI Workbench on GPUs Explore NVIDIA's AI models, blueprints, and tools for dev

Nvidia Corporation[a] (/?n?v?di?/ en-VID-ee-?) is an American technology company headquartered in Santa Clara, California. Founded in 1993 by Jensen Huang, Chris Malachowsky, and Curtis Priem, it develops graphics processing units (GPUs), system on a chips (SoCs), and application programming interfaces (APIs) for data science, high-performance computing, and mobile and automotive applications.[5][6]

Originally focused on GPUs for video gaming, Nvidia broadened their use into other markets, including artificial intelligence (AI), professional visualization, and supercomputing. The company's product lines include GeForce GPUs for gaming and creative workloads, and professional GPUs for edge computing, scientific research, and industrial applications. As of the first quarter of 2025, Nvidia held a 92% share of the discrete desktop GPU market.[7]

In the early 2000s, the company invested over a billion dollars to develop CUDA, a software platform and API that enabled GPUs to run massively parallel programs for a broad range of compute-intensive applications.[8][9][10] As a result, as of 2025, Nvidia controlled more than 80% of the market for GPUs used in training and deploying AI models,[8] and provided chips for over 75% of the world's TOP500 supercomputers.[1] The company has also expanded into gaming hardware and services, with products such as the Shield Portable, Shield Tablet, and Shield TV, and operates

the GeForce Now cloud gaming service.[11] It also developed the Tegra line of mobile processors for smartphones, tablets, and automotive infotainment systems.[12][13][14]

In 2023, Nvidia became the seventh U.S. company to reach a US$1 trillion valuation.[15] In 2025, it became the first to surpass US$4 trillion in market capitalization, driven by rising global demand for data center hardware in the midst of the AI boom.[16][17]

Nvidia was founded on April 5, 1993,[18][19][20] by Jensen Huang (who remains CEO), a Taiwanese-American electrical engineer who was previously the director of CoreWare at LSI Logic and a microprocessor designer at AMD; Chris Malachowsky, an engineer who worked at Sun Microsystems; and Curtis Priem, who was previously a senior staff engineer and graphics chip designer at IBM and Sun Microsystems.[21][22] In late 1992, the three men agreed to start the company in a meeting at a Denny's roadside diner on Berryessa Road in East San Jose.[23][24][25][26]

At the time, Malachowsky and Priem were frustrated with Sun's management and were looking to leave, but Huang was on "firmer ground",[27] in that he was already running his own division at LSI.[24] The three co-founders discussed a vision of the future which was so compelling that Huang decided to leave LSI[27] and become the chief executive officer of their new start-up.[24]

The three co-founders envisioned graphics-based processing as the best trajectory for tackling challenges that had eluded general-purpose computing methods.[27] As Huang later explained: "We als

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