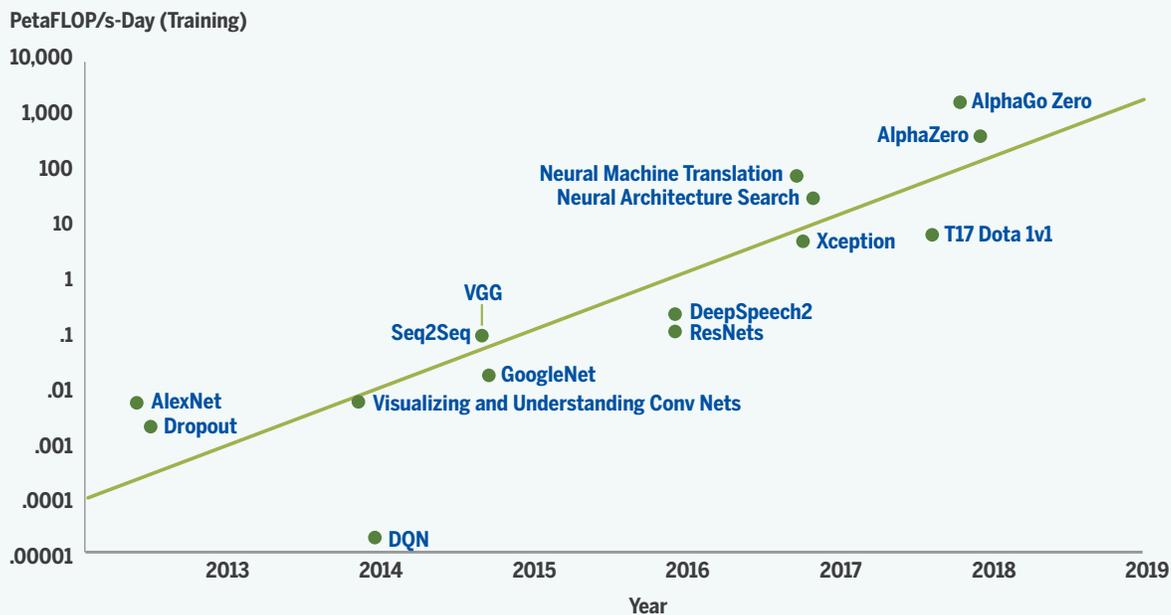


The New Moore's Law

Moore's Law states that the speed and ability of computers doubles every two years as the number of transistors on a microchip increases. It has been the driving force of the global digital revolution. Now a different version of Moore's Law is set to usher in even larger, more powerful changes in technology and living standards.

Exponential Growth in the Training of Artificial Intelligence Programs



Source: <https://openai.com/blog/ai-and-compute/>

Note: A petaFLOPS is a unit of computing speed equal to one quadrillion FLOPS, floating operations per second, a measure of computer performance.

- The amount of “training” a computer program undergoes drives advances in artificial intelligence (AI). This training can be thought of as computing usage (compute for short) needed to practice and improve a program’s skill. AI is the ability of computer systems to perform tasks that normally require human intelligence and perception.
- The chart above shows how much “training” various AI programs required over time. More available compute led to added training and better programs. Incredibly the speed of training is doubling every three to five months, faster than Moore’s Law. If sustained this greater speed is likely to lead to incredible breakthroughs in the field of AI. For example, AI recently tackled the field of radiology and proved it could analyze images better than 80% of the experts, according to Google Director of Engineering Ray Kurzweil.
- Companies that are at the forefront of AI services, such as the major cloud platforms or leaders in the hardware that drives the cloud technology forward, may enjoy a very bright future.

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