

CELEBRATING 50 YEARS OF MOORE'S LAW

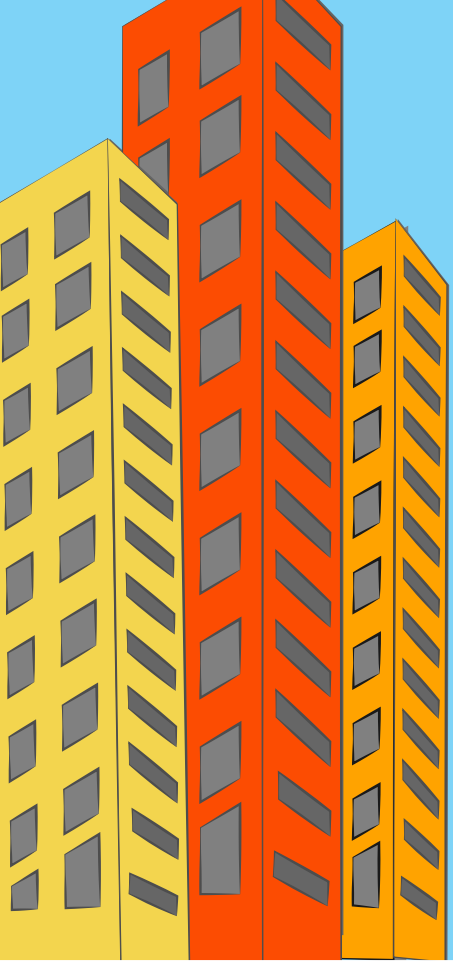
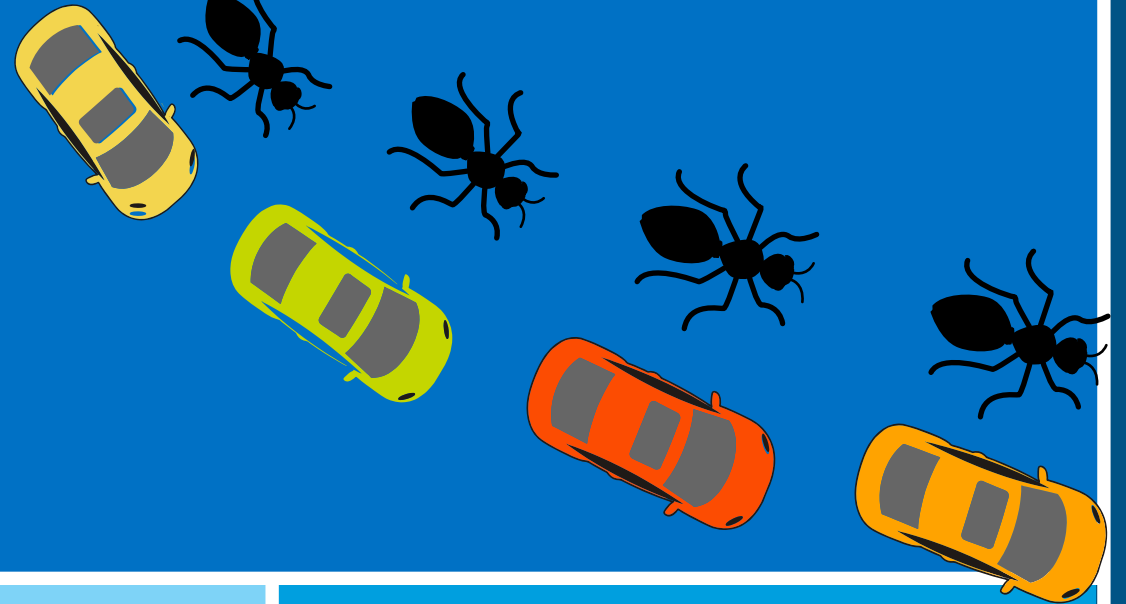
WHATEVER HAS BEEN DONE, CAN BE OUTDONE

On April 19, 1965, three years before co-founding Intel, Gordon Moore predicted that transistors—the fundamental building blocks of the microprocessor and the digital age—would decrease in cost at an exponential rate and increase in performance. For the last 50 years, “Moore’s Law” and ever-tinier Intel processors have been the invisible force behind amazing innovations that have transformed our world and our lives.

IF FUEL EFFICIENCY IMPROVED AT THE SAME RATE AS MOORE'S LAW, YOU COULD EASILY DRIVE A CAR FOR YOUR ENTIRE LIFE ON A SINGLE TANK OF GAS.



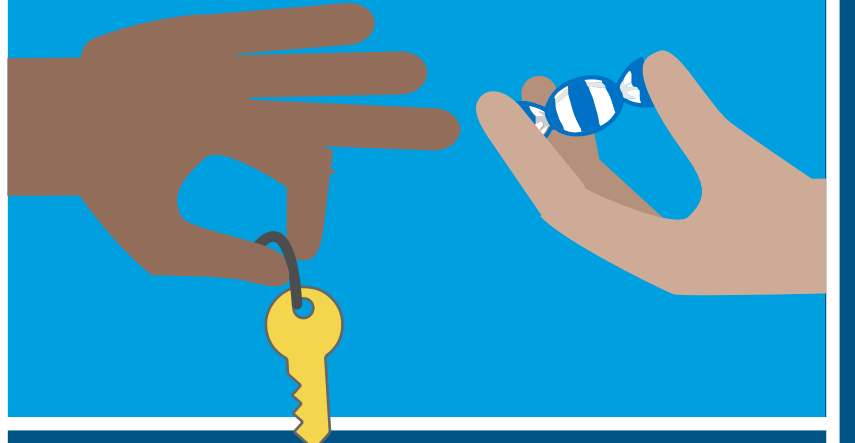
IF CARS SHRUNK AT THE RATE OF TRANSISTORS, TODAY THEY'D BE THE SIZE OF AN ANT.



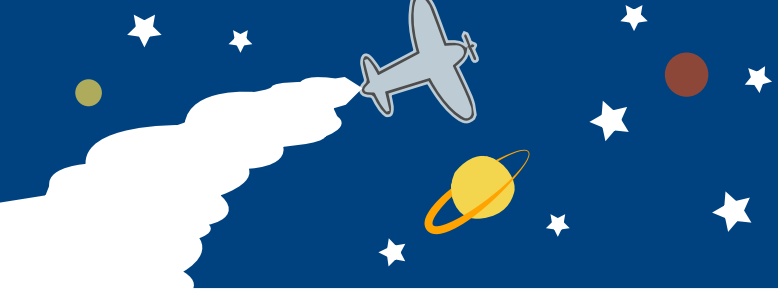
IF SKYSCRAPERS FELL IN PRICE AT THE PACE OF MOORE'S LAW, YOU COULD BUY ONE FOR LESS THAN THE COST OF A PC TODAY. AND IF THEY INCREASED IN HEIGHT AT THE SAME RATE, THEY WOULD BE 35 TIMES THE HEIGHT OF MT. EVEREST.



IF HOUSE PRICES FELL AT THE SAME RATE AS TRANSISTORS, YOU COULD PURCHASE A HOME FOR THE PRICE OF A PIECE OF CANDY.



THE APOLLO SPACE PROGRAM TO LAND HUMANS ON THE MOON COST \$25 BILLION. IF PRICES FELL AT THE PACE OF MOORE'S LAW, TODAY THAT PROGRAM WOULD COST ABOUT AS MUCH AS A SMALL PRIVATE PLANE.



THE TRIP TO THE MOON IN 1969 TOOK THREE DAYS. IF MOORE'S LAW APPLIED TO SPACE TRAVEL, THAT TRIP WOULD NOW TAKE ONE MINUTE.

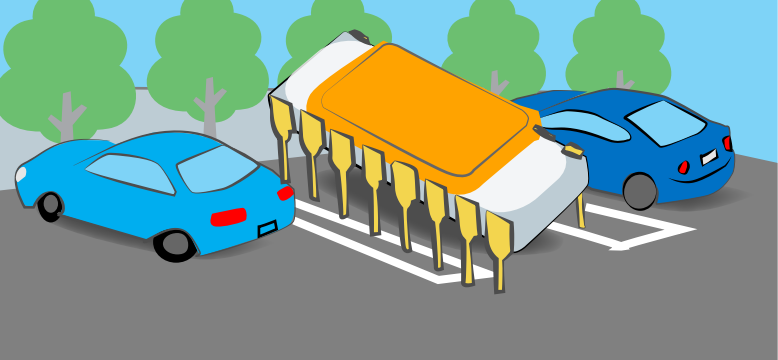


A FLIGHT FROM NEW ZEALAND TO NEW YORK WOULD BE OVER IN THE TIME IT TAKES TO FASTEN YOUR SEATBELT.

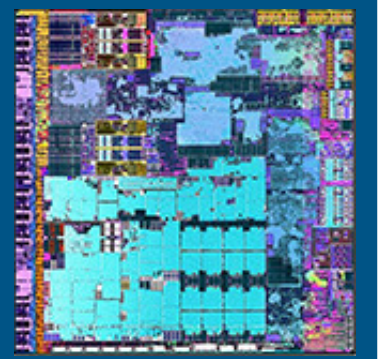


Many devices that people use daily are powered by microprocessors made up of transistors. As these devices have dramatically decreased in cost and increased in performance and energy efficiency, thanks to Moore’s Law, they have become an indispensable part of our lives. Phones and watches have become smart, and cars have turned into roving computers.

IF AN INTEL-BASED ANDROID PHONE WERE BUILT USING 1971 TECHNOLOGY, THE PHONE'S MICROPROCESSOR ALONE WOULD BE THE SIZE OF A PARKING SPACE.**



COMPARED TO INTEL'S FIRST MICROPROCESSOR, THE INTEL® 4004, TODAY'S 14NM PROCESSORS DELIVER 3,500 TIMES THE PERFORMANCE, AT 90,000 TIMES THE EFFICIENCY AND AT 1/60,000TH THE COST.



Moore’s Law is an aspiration, not a law of nature. It’s made possible by an army of people, pushing the fundamental laws of physics. Today, Intel factories produce over 10 billion transistors every second that power the amazing devices that serve the needs of billions of people all over the world.

THE FIRST SEMICONDUCTOR TRANSISTORS WERE THE SIZE OF AN ERASER AT THE END OF A PENCIL. AS A RESULT OF MOORE'S LAW, MORE THAN SIX MILLION OF TODAY'S TRI-GATE TRANSISTORS COULD FIT IN THE PERIOD AT THE END OF THIS SENTENCE.



TODAY'S TRANSISTORS ARE INVISIBLE TO THE NAKED EYE. TO SEE A SINGLE TRANSISTOR, YOU'D HAVE TO ENLARGE A TYPICAL CHIP TO THE SIZE OF A HOUSE.



Today, the pervasive spirit of innovation unleashed by Moore’s Law continues to transform not just the technology industry but the world. Young makers, eager inventors, aspiring scientists and doctors and countless others will continue to amaze the world with ideas and breakthroughs that today we cannot even imagine.

**FOOTNOTE: Intel introduced the world's first microprocessor, the 4004, in 1971. To illustrate the power of Moore's Law, contrast that early chip with today's Intel® Core™ i5 processor.*

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