## Understanding Moore's Law

What if we told you that a prediction from 1965 still holds true today? That's right, Moore's Law is a prediction made by Intel co-founder Gordon Moore
that set the pace for the digigitar revolution. But what exactly is Moore's Law and why is it such a big deal? We breaki it down for you below.


## The golden rule of technology

From careful observation of an emerging trend, Moore extrapolatedet that
computing would dramatically increase in powerand decrease in relative
computing would dramatically increase in opwer and deereraase ine in ertative
costatan exponential pace. He predicted the number of transistors on a Cchip would double roughly verertwo years, with a minimal increase in cost.
This prediction became known as Moores Laeav.

Moore's Law became the golden rule for the electronics industry, and a Springoord for innovation. And Moore paved the way for Intel tom ake the
faster, , maller, more aftordable transistors that drive modern tools and toys

## Wait, is Moore's Law dead?

## Definitely not

Moore's Law only stops when innovation stops, and innovation continues unabated at Intel in process, packaging and architecture. Yet several times overthe past four decades, most recently in the mid.-tol late 2010, experts posited that the industry had reached a
point where maintaining the pace of Moorés Law was nol onger phys ically possibe. That couldn't be further from the truth. ich history of foundational process innovations in pursuit of Moore's LLaw. For over 50 years, engineers have continually innovated to


Going forward, gains will come from innovations in both processs (transistor design) and packaging. Advanced packagaing gives architects and



The pillars supporting the future of Moore's Law


Summary

