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## DOT-COM DEJA VU?

### *Distinguishing Today's Tech Market from the Late 1990s Bubble*

The late 1990s dot-com bubble is etched in market history as a period of extraordinary technological optimism, speculative frenzy, and—ultimately—a dramatic collapse that erased nearly 80% of the Nasdaq's value over the subsequent two years. In recent years, particularly with the excitement surrounding artificial intelligence and the significant market gains of large technology firms, questions inevitably arise: are we witnessing an echo of that "irrational exuberance"? Is today's technology stock market simply a dot-com deja vu?

While surface similarities, such as rapid innovation and high valuations in certain segments, are apparent, a deeper analysis reveals that today's technology stock market differs fundamentally from its late 1990s predecessor. Key distinctions lie in the financial health and business models of leading companies, the rationale behind valuations, the structure of the market, the maturity of underlying technologies, and the significantly altered macroeconomic landscape.

### A Healthier Current Era

	Dot-Com Era (c. 1997-2000 Peak)	Current Era (c. 2021-Present)
Business Fundamentals	Unproven, pre-revenue, pre-profit businesses in crowded markets	Category dominating, scaled, free cash flow generative large businesses
Valuation	Nasdaq 200x P/E	Nasdaq 24x P/E
Market Structure	Retail frenzy and rising supply of equities	Institutional investors and falling supply due to equity repurchase
Technology Foundation	Nascent and rapidly changing; hard to establish competitive advantage	Mature platforms enable scaling of subsequent innovations and maintain competitive advantages
Macroeconomics	Great moderation, high growth, low inflation and interest rates	Volatile demand, inflation, and interest rate conditions keep investors sober



## The Anatomy of the Dot-Com Bubble (c. 1997-2001): Hope Over Fundamentals

The dot-com era was characterized by a unique confluence of factors: nascent technology potential, readily available capital, and widespread speculative enthusiasm that overshadowed traditional financial discipline.

### Valuation: Metrics of Potential, Not Profit

A defining feature of the dot-com bubble was the detachment of stock valuations from traditional financial metrics. Investors, captivated by the transformative potential of the internet, willingly overlooked established benchmarks like the price-to-earnings (P/E) ratio. Instead, valuations were often justified based on non-financial or forward-looking metrics such as website traffic ("eyeballs"), "mindshare," registered users, or simply the presence of ".com" in a company's name. The prevailing logic centered on capturing market share and building brand recognition first, with the assumption that profits would inevitably follow. This led to astronomical valuations; the Nasdaq Composite index, heavily weighted towards technology stocks, saw its P/E ratio soar to around 200x at its peak, dwarfing historical norms and the peak P/E ratio seen during the Japanese asset bubble. The broader S&P 500 index also reached a P/E ratio exceeding 44x, driven largely by the tech sector's influence. Globally, the tech sector valuation peaked near 80 times earnings in 2000.

This reliance on unconventional metrics stemmed partly from necessity. Many companies going public during the boom had never generated a profit, or in some cases, any significant revenue or even a finished product. Traditional valuation methods requiring positive earnings or cash flow were simply inapplicable. Analysts and investors, therefore, grasped at alternative indicators—potential audience size, projected market dominance, the sheer novelty of the business concept—as proxies for future value. This attempt to quantify the *promise* of a revolutionary technology before its business models were proven stands in stark contrast to today's market, where leading firms generate substantial profits, allowing for the application of traditional valuation frameworks.

### Corporate Fundamentals: Burning Cash for Growth

Beneath the soaring valuations, the financial health of typical dot-com companies was often precarious. The dominant strategy was "get big fast," prioritizing rapid expansion and market share acquisition above all else. Fueled by abundant venture capital and IPO proceeds, companies spent lavishly on marketing, advertising, and customer acquisition, often without a clear or sustainable path to profitability. Consequently, cash burn rates were extremely high, and profits were elusive. In 1999, only 14% of the 370 technology IPOs were profitable.



## Excess Capital: IPO Frenzy

Investor sentiment during the dot-com boom reached levels of euphoria. Media hype played a significant role, amplifying success stories and encouraging participation. The fear of missing out became a powerful motivator, drawing increasing numbers of investors, including many first-time retail participants enabled by the democratization of online trading, into the market. This environment created an intense IPO frenzy. Companies rushed to go public, often within short timeframes after their founding, to capitalize on the market's appetite for tech stocks. In 1999 alone, there were 457 IPOs, the majority related to internet companies, followed by another 91 in the first quarter of 2000. Despite a rising supply of equity on the market, demand for shares temporarily grew even faster and many IPOs experienced staggering first-day price increases or "pops," further fueling the speculative mania. This rush to public markets often occurred before companies had solidified their business models or demonstrated long-term viability, ultimately leaving many public market investors holding worthless stock when the bubble burst.

## Immature Foundational Technology: The Dial-Up Decade

Underpinning the dot-com bubble was the internet itself—a technology rapidly gaining adoption but still far from the mature, integrated platform it is today. Household computer ownership was increasing significantly, rising from 15% to 35% in the US between 1990 and 1997. However, for most users, internet access meant slow dial-up connections via telephone lines, with typical speeds far below today's broadband standards.

This technological context reveals a significant gap between the revolutionary outcomes investors envisioned for the internet and the actual capabilities and user experience available at the time. This mismatch between expectation and reality—valuing companies based on a future state that the present technology could not fully support—was a fundamental vulnerability of the dot-com bubble. Furthermore, a company's durable competitive advantage is predicated on the stability of the platform on which it operates, and this era did not yet offer a mature, stable platform.



## Today's Technology Market (c. 2021-Present): Giants, Profits, and Platforms

The contemporary technology stock market, while still characterized by innovation and periodic bursts of enthusiasm, operates on a foundation vastly different from that of the late 1990s. Profitability, established business models, mature technologies, and a different market structure define the current era.

## Valuation Recalibration: Profits, Cash Flow, Strong Balance Sheets

Valuation methodologies in today's tech market represent a significant departure from the dot-com era's speculative metrics. While valuations, particularly for companies associated with trending themes like AI, can still be high, they are tied to actual financial performance, primarily earnings and cash flow. The extreme P/E ratios of the bubble's peak are largely absent among established public tech companies today. For instance, in 2015, public tech company valuations averaged around 20 times earnings, only slightly above the overall market, and even after recent outperformance, the S&P 500 tech sector P/E ratio remains significantly below dot-com peaks.

### Valuation Metrics - Then vs. Now

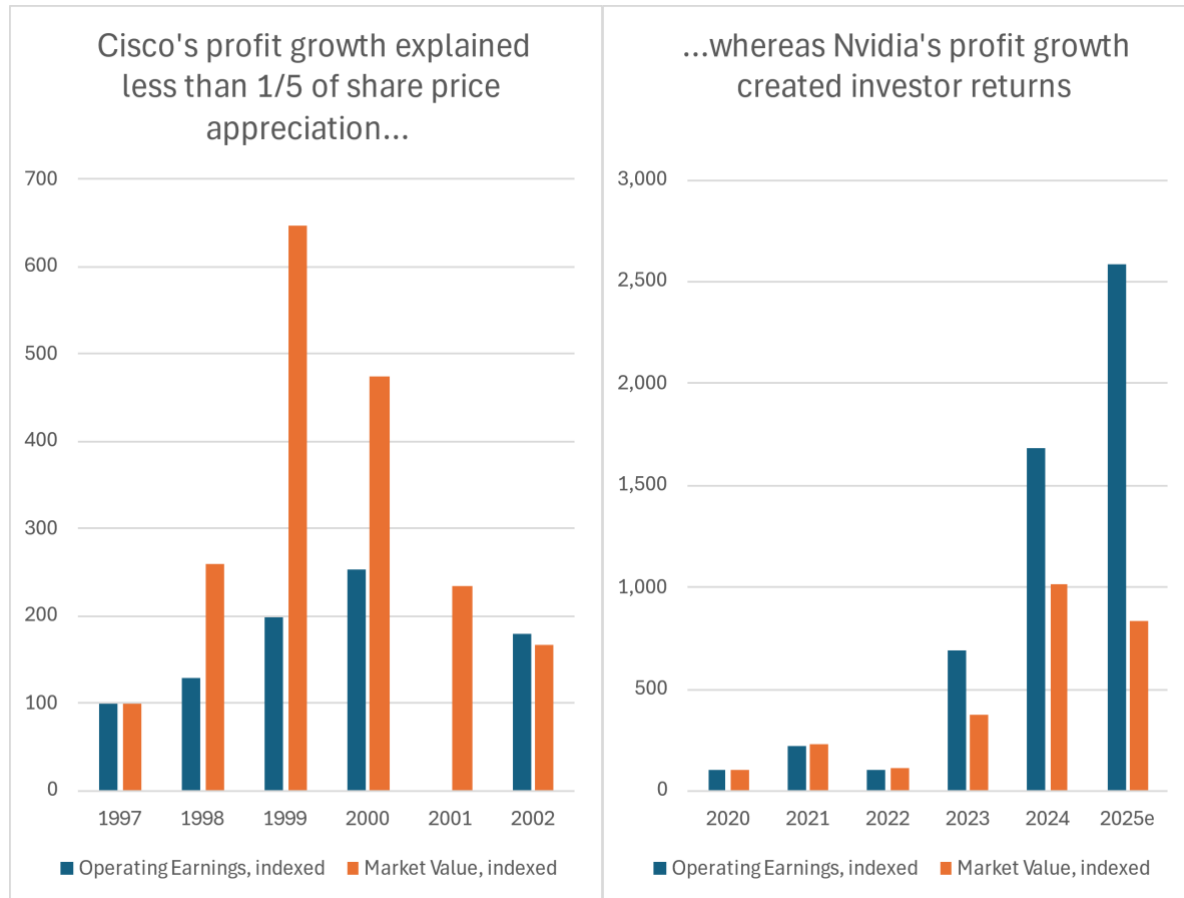
Feature	Dot-Com Era (c. 1997-2000 Peak)	Current Era (c. 2021-Present)
Primary Focus	Future Potential, Market Share, Brand Recognition	Current Profitability, Sustainable Growth, Cash Flow
P/E Ratios	Extreme: Nasdaq ~200x, S&P Tech ~70x, S&P 500 44x	Elevated but Generally Lower, Supported by Earnings (S&P Tech ~20-30x range common)
Key Metrics	"Eyeballs," Website Traffic, User Growth, ".com" Name	P/E Ratio, Forward P/E, PEG Ratio, Revenue Growth, EBITDA Margin, Free Cash Flow
Basis	Speculation on Untested Models	Analysis of Established Business Models & Financial Performance

At the 2000 peak, the top 10 market-cap companies contributed only about 16% of total S&P 500 earnings whereas today's 10 largest companies contribute 30% of total S&P 500 earnings.

Exemplar companies and stocks from the two eras are Cisco and Nvidia. Both companies experienced multiple years of earnings growth, are considered prime beneficiaries of the spending priorities of the era, and generated investor returns that vastly exceeded the overall market. Ultimately the gain in Cisco market value matched the growth in operating earnings; however, for a period of three years the stock's valuation increase provided most of the return. This was not a lasting benefit, and the valuation reversal led to the bust. In contrast, even though Nvidia has delivered an investment return that is



even better than Cisco, the valuation has become more reasonable due to exceptionally strong company profits.



## Corporate Titans: Profitability, Scale, and Market Dominance

Perhaps the most striking difference lies in the nature of the dominant companies. The dot-com era was characterized by a proliferation of startups, most of which were financially fragile. Today's tech landscape is dominated by a handful of behemoths characterized by enormous revenues, substantial profits, strong cash flows, and established, often platform-based, business models. The largest six technology companies by market capitalization (inclusive of Amazon.com) generated nearly \$2 trillion of aggregate sales and \$476 billion of net income last year. This gargantuan size has funded exceptional R&D and capital expenditures designed to position these leaders of today as leaders of tomorrow. This is in stark contrast to the cash-burning dot-coms that managed their businesses just to stay afloat instead of targeting future success.



## Mature Technologies: Cloud and Mobile Make Stable Foundation

The technological foundation of today's market is vastly more mature than in the late 1990s. The dial-up era has given way to ubiquitous high-speed broadband and mobile internet access. Cloud computing provides scalable infrastructure on demand.

Sophisticated mobile operating systems and app stores form vast ecosystems. These mature technologies underpin the business models of today's tech leaders. Current waves of innovation, most notably AI, are being developed and deployed largely on top of this robust digital infrastructure by established, well-capitalized companies with access to massive datasets and engineering talent.

This contrasts sharply with the dot-com era, where companies were simultaneously trying to build basic online businesses, and the underlying infrastructure needed to support them. Many failed because the technology or the market simply wasn't ready. Today, major players are integrating AI into existing, profitable platforms and services, potentially allowing for a faster and more predictable cycle of adoption and monetization compared to the speculative build-out phase of the internet. While AI undoubtedly carries its own hype cycle, its development is largely occurring within companies possessing proven execution capabilities and deep resources, rather than primarily among pre-revenue startups building everything from scratch.





## The Macroeconomic Backdrop: Then vs. Now

The macroeconomic conditions of the late 1990s differed considerably from the recent environment. The dot-com bubble inflated during what was often termed the "Goldilocks economy"—a period characterized by strong, consistent GDP growth, relatively low inflation, and accommodative monetary policy for much of the run-up. Interest rates had declined from earlier peaks, making capital cheap and readily available. The Federal Funds Rate remained in a relatively stable and moderate range in the years leading up to the 2000 peak. It was only in mid-2000 that Federal Reserve rate hikes brought the Fed funds rate near 6.5%, which cooled the overheating economy and contributed to pricking the bubble. Still, compared to today, the 90s had relatively fewer macro shocks; the dot com collapse itself caused a mild recession in 2001, rather than the other way around.

In 2025, the macroeconomic environment is more complex. A decade of near-zero rates after the 2008 financial crisis fueled generous funding for tech ventures and very high stock valuations by 2020–21. However, the tide turned with post-pandemic inflation. Central banks, led by the Fed, hiked rates aggressively in 2022–2023 (to ~5.25% in the U.S.), which compressed valuations and punished unprofitable tech firms. This policy shift contributed to the 2022 tech stock correction and served as a reality check on exuberance. Thus, unlike 2000 when monetary tightening followed the bubble's peak, in this cycle tightening began during the boom, helping to moderate excesses. Going forward, higher interest rates impose a more disciplined valuation framework for growth stocks: investors can no longer assume a zero-cost of capital indefinitely, which is a fundamental difference from the free-money environment that nurtured both the late-90s bubble and the 2010s bull market.

### Macroeconomic Indicators Comparison

Indicator	1997-2000	2021-2024
Fed Funds Rate (%)	Range: 4.7% - 6.5%	Range: ~0.1% - 5.3%
Annual CPI Inflation (%)	Avg: ~2.4%	Avg: ~5.0% (peaking at 8.0%)
Annual Real GDP Growth (%)	Avg: ~4.4%	Avg: ~3.5% (post-COVID recovery)

*Note: Averages calculated based on annual data within the specified periods from FRED*



## Different Eras, Different Business Qualities

Comparing today's technology stock market with the dot-com bubble reveals more differences than similarities. While the enduring excitement surrounding transformative technologies—the internet then, AI now—and the potential for pockets of investor exuberance provide echoes of the past, the fundamental structures and characteristics of the market have evolved favorably.

The core distinctions are stark:

- **Company Health:** The market of the late 1990s was populated by financially fragile, cash-burning startups with unproven business models. Today's market is anchored by profitable, cash-generating giants with dominant market positions and resilient operations.
- **Valuation:** The dot-com era was defined by valuations based on speculative potential and non-financial metrics, often for companies with no profits or revenues. Today, while market capitalizations can be high, they are largely driven by the substantial profits and cash flows of established leaders.
- **Market Structure:** The dot-com frenzy was broad-based, involving hundreds of IPOs and widespread retail speculation. Today's market is far more concentrated, with performance heavily influenced by a small number of mega-cap companies and significant institutional ownership. The dot-com era saw rising supply of equity whereas today's large share repurchase activities are lowering supply of equity.
- **Technology:** The internet and its supporting infrastructure were nascent in the late 1990s, creating a gap between hype and reality. Today's innovations, like AI, are being built upon a mature technological foundation by established players.
- **Macro Environment:** The dot-com bubble benefited from generally stable macroeconomic tailwinds for much of its inflation. The current market has demonstrated resilience through recent periods of significant macroeconomic volatility and headwinds.

The current technology market is fundamentally different from the dot-com bubble. The underlying profitability, established business models, and mature technological base of today's leading companies suggest a structure that, while not immune to corrections, is less inherently unstable than the late 1990s. The trajectory ahead will likely be shaped less by a dot-com-style implosion and more by how these dominant technology firms navigate the complex interplay of innovation, competition, and global economics.





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