State of Crypto 2024 - a16z crypto

2024 a16zcrypto.com/posts/article/state-of-crypto-report

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When we launched our first annual <u>State of Crypto report</u> two years ago, the world looked very different. Crypto wasn't high on policymakers' agendas. Bitcoin and Ether exchange-traded products (ETPs) weren't yet SEC approved. Ethereum had not yet <u>switched</u> to energy-minimizing proof-of-stake. Layer two (L2) networks, designed to increase capacity and lower transaction costs, were largely inactive — and the transactions that did occur on them cost a lot more than they do today.

Times have changed, as our newly released 2024 State of Crypto Report makes clear. Our report covers crypto's rise as a hot policy topic, the many recent tech improvements to blockchain networks, and the latest trends among crypto's builders and users. The report also:

- digs into the emergence of key applications such as stablecoins one of crypto's "killer apps";
- explores the intersection of crypto and other key tech trends like AI, social networks, and games;
- shares new data on swing states' levels of crypto interest ahead of the U.S. election, and more.

The 2024 State of Crypto report also reveals all-time highs in crypto activity. And it analyzes how blockchain infrastructure has matured — especially after recent scaling <u>upgrades</u> drastically decreased onchain transaction costs alongside the rise of Ethereum L2s and other high-throughput blockchains.

This year, we're also introducing a new tool: the a16z crypto <u>Builder Energy dashboard</u>. For the first time ever, we're sharing proprietary data based on our unique view of the crypto landscape, including where the "builder energy" is. The dashboard incorporates thousands of data points — aggregated and anonymized — that are drawn from investment team research, our CSX startup accelerator program, and other industry-wide tracking. Through this tool, anyone can explore what crypto builders are saying about their activity and interests — everything from which blockchains they're building on, to what types of applications they're building, as well as which technologies they're building with, and where they're based. We plan to update the data every year as part of our annual <u>State of Crypto</u>.

explore the dashboard

Now for the findings from our 2024 State of Crypto report.

7 key takeaways

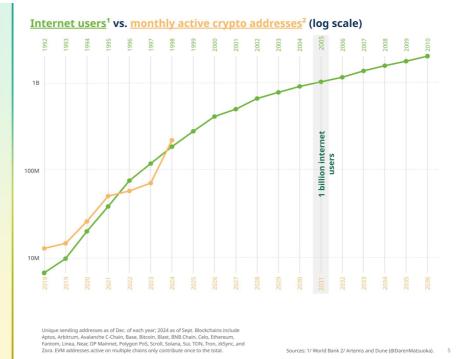
- Crypto activity and usage hit all-time highs
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- · Crypto could solve some of Al's most pressing challenges
- More scalable infrastructure has unlocked new onchain applications

1. Crypto activity and usage hit all-time highs

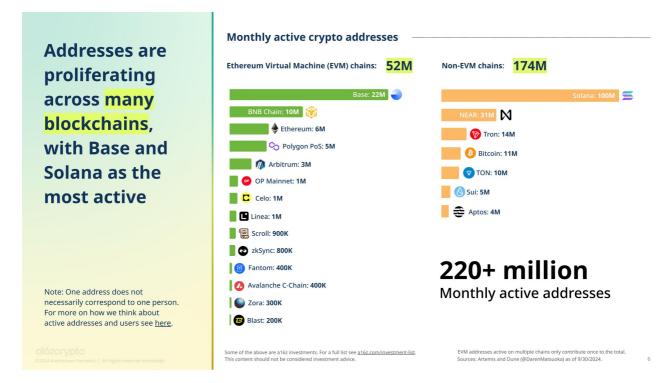
There have never been more monthly active crypto addresses. In September, 220 million addresses interacted with a blockchain at least once, a figure that has more than tripled since the end of 2023. (As a metric, active addresses are easier to game than other measures. See more on that point <u>here</u>.)



Note: One address does not necessarily correspond to one person. For more on how we think about active addresses and users see here.

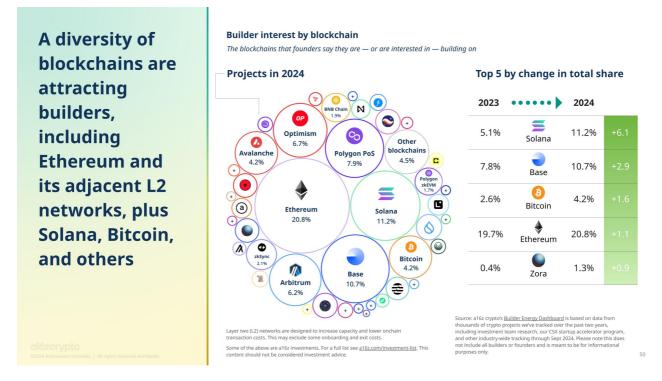


The explosion of activity is primarily due to Solana, which accounted for about 100 million active addresses. Following were NEAR (with 31 million active addresses), Coinbase's popular L2 network Base (22 million), Tron (14 million), and Bitcoin (11 million). Of Ethereum Virtual Machine (EVM) chains, the second-most active after Base was Binance's BNB Chain (10 million), followed by Ethereum (6 million). (Note: EVM chains were de-deduplicated by public key to calculate the 220 million total.)



These trends are also reflected in our <u>Builder Energy dashboard</u>. The blockchain that saw the biggest change in total share of builder interest is Solana. Specifically, the total share of founders who told us they either are, or are interested in, building on Solana grew to

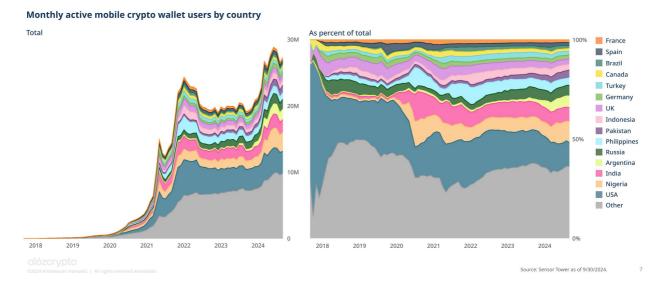
11.2% this year from 5.1% last year. Base saw the next biggest jump, its total share growing to 10.7% from 7.8% last year, followed by Bitcoin, which bumped to a total share of 4.2% from 2.6% last year.



On an absolute basis, Ethereum is still attracting the greatest share of total builder interest at 20.8%, followed by Solana and Base. After that are Polygon (7.9%), Optimism (6.7%), Arbitrum (6.2%), Avalanche (4.2%), Bitcoin (4.2%), and so on.

Meanwhile, the number of monthly mobile crypto wallet users hit an all-time high of 29 million in June 2024. While the U.S. makes up the greatest share of monthly mobile wallet users at 12%, its share of the total mobile wallet user base has declined in recent years as crypto adoption grows globally and as more projects seek regulatory compliance by excluding the U.S. through geofencing.

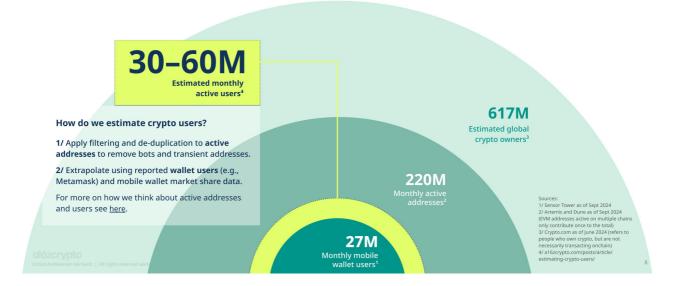
Mobile wallet use hit <mark>record highs</mark>, driven by growth in countries such as Nigeria, India, and Argentina



Crypto's footprint continues to expand abroad. After the U.S., the countries with the greatest share of mobile wallet users include Nigeria (which has sought to provide regulatory clarity including through regulatory incubation programs and has seen significant growth in consumer uses such as bill payments and retail purchases), India (with its booming population and mobile phone adoption), and Argentina (where many residents have flocked to crypto — especially stablecoins — amid currency devaluation).

While it's easy to measure active addresses and monthly mobile wallet users, it's much trickier to measure the number of actual active crypto users. However, using a combination of methodological approaches, we've estimated that there are 30-to-60 million monthly active crypto users worldwide, a proportion that represents only 5–10% of the total number of the 617 million global crypto owners estimated by Crypto.com in June 2024. (For more on the methodology behind our estimate, see <u>here</u>.)

We estimate that only 5–10% of crypto owners are active users — there's a big opportunity to re-engage passive holders onchain



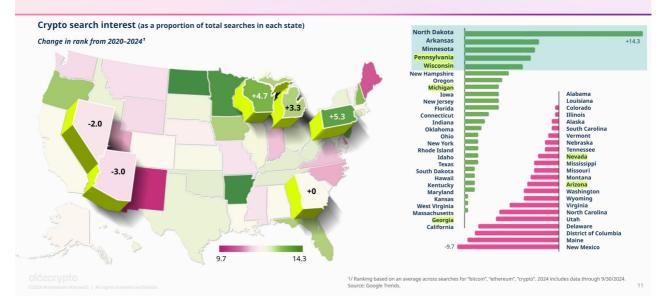
The disparity underscores the large opportunity to engage — and re-engage — passive crypto holders. As major infrastructure improvements make brand new, compelling apps and consumer experiences possible, more dormant crypto holders could become active onchain users.

2. Crypto has become a key political issue ahead of the U.S. election

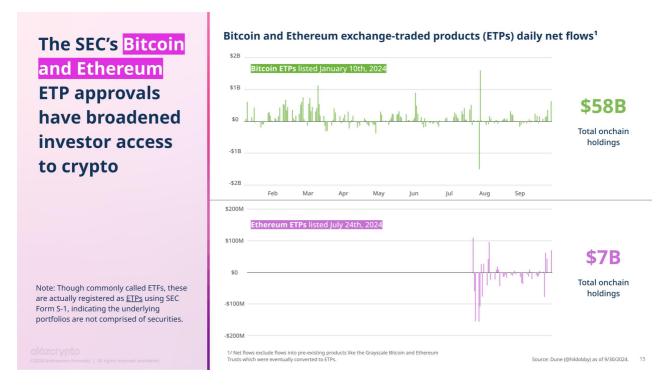
Crypto has broken into the national discourse this election cycle.

So we measured swing states' relative levels of crypto interest. Two battlegrounds expected to be among the tightest races in November — Pennsylvania and Wisconsin — have seen the fourth- and fifth-biggest jumps in crypto search interest since the last election in 2020, measured as a proportion of total searches using Google Trends. Michigan saw the eighth-biggest jump in crypto search interest, while Georgia stayed put. Meanwhile, Arizona and Nevada experienced moderate drops in interest since 2020.

Crypto interest is rising in several <mark>swing states</mark> — Pennsylvania and Wisconsin see Top 5 biggest jumps



One factor that could have raised people's crypto interest this year was the listing of Bitcoin and Ethereum exchange-traded products (ETPs). The number of Americans who hold crypto could grow as ETPs such as these broaden investor access. Together, the Bitcoin and Ethereum ETPs already contain \$65 billion in onchain holdings. (Note: Though commonly called ETFs, these products are actually <u>registered as ETPs</u> using SEC Form S-1, indicating the underlying portfolios are not comprised of securities.)



The SEC's ETP approvals represent major crypto policy milestones. Regardless of which party wins office in November, many politicians expect momentum to build with the passage of bipartisan crypto legislation. An increasing number of policymakers and politicians are speaking positively about crypto on both sides of the aisle.



"We will partner together to invest in America's competitiveness, to invest in America's future. We will encourage innovative technologies like AI and digital assets while protecting consumers and investors."

> Vice President Kamala Harris



"We all believe in the future of crypto....I want to bring members on both sides of the aisle here in the Senate together...so we can pass sensible [crypto] legislation that helps the United States maintain its status as the most innovative country in the world."

> Sen. Chuck Schumer (D-NY)



"We've been working hard to develop a comprehensive cryptocurrency framework that enables entrepreneurs and businesses to innovate responsibly while also protecting consumers and cracking down on bad actors."

> Sen. Kirsten Gillibrand (D-NY)



"These [crypto builders] are focused on innovating and creating jobs in the U.S. An already difficult task made tougher without clear guardrails or regulation."

> Rep. Ro Khanna (D-CA)



"This afternoon I'm laying out my plan to ensure that the United States will be the crypto capital of the planet and the bitcoin superpower of the world and we'll get it done."

> Republican presidential candidate Donald Trump



"The U.S. has always been a financial leader, but we're on the brink of being left behind in the digital asset race....now Congress needs to pass essential legislation to secure our financial future."

> Sen. Cynthia Lummis (R-WY)



"Regardless of the outcome, I expect you to see digital asset legislation start to move in both bodies....I think it is 'when,' not 'if,' regardless of who's in charge."

> Majority Whip Tom Emmer (R-MN)



"We'll continue fighting for rules and regulations for digital assets that promote innovation, protect consumers, and keep opportunity here in America, not overseas." > Sen. Tim Scott (R-S.C.)

Sources: whitehouse.gov, CNBC, cryptonews.com, X, CNBC, X, Decrypt, X.

Democrats and Republicans recognize the opportunity for crypto and are ready to pass bipartisan legislation

The industry has inspired other significant movements on the policy front this year as well. At the federal level, the House of Representatives approved the <u>Financial Innovation</u> <u>and Technology for the 21st Century</u> (FIT21) Act with bipartisan support, including 208 Republicans and 71 Democrats voting in favor. Pending Senate proceedings and approval, the bill could provide much-needed regulatory clarity to crypto entrepreneurs.

No less meaningfully, at the state level, Wyoming passed the <u>Decentralized</u> <u>Unincorporated Nonprofit Association (DUNA) Act</u>, a law that gives decentralized autonomous organizations (DAOs) legal recognition and enables blockchain networks to operate lawfully without compromising on <u>decentralization</u>.

The crypto industry is on a path toward more regulatory clarity after some major policy wins in 2024



Wyoming Decentralized Unincorporated Nonprofit Association Act (<u>DUNA)</u>

March 2024 Signed into law with an effective date of July 1, 2024

Recognizes DAOs as legal entities, enabling blockchain networks to operate lawfully without compromising their decentralization

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U.S. Financial Innovation and Technology for the 21st Century Act (<u>FIT21)</u>

May 2024 Passed the House with bipartisan support, including 71 Democrat votes

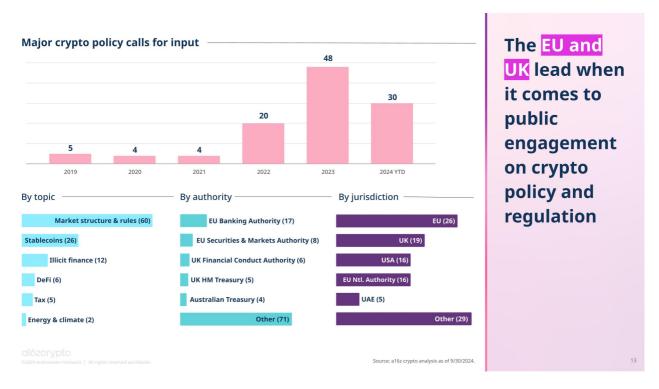
Provides regulatory clarity for crypto, protects consumers from bad actors, and promotes American innovation pending Senate approval

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EU Markets in Crypto-Assets Regulation (<u>MiCA)</u>

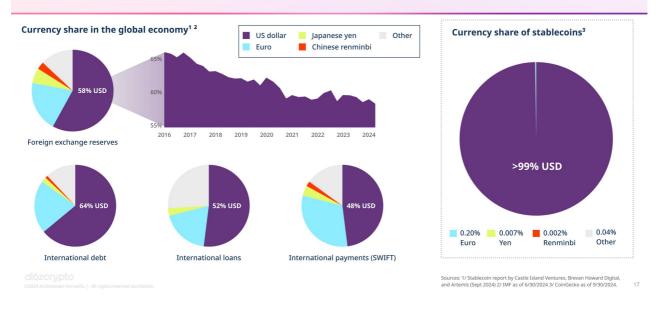
December 2024 Goes fully into effect, after approval by a large majority in 2023

The European Union's first comprehensive regulatory framework involving crypto assets and related service providers The EU and the United Kingdom have been the most proactive in engaging the public on questions of crypto policy and regulation. Various European agencies have put out many more calls for input than, for example, the U.S. Securities and Exchange Commission. Meanwhile, the European Union's Markets in Crypto Act (MiCA) is the first comprehensive crypto-related policy regime to pass into law and it is set to come into full effect by the end of the year.



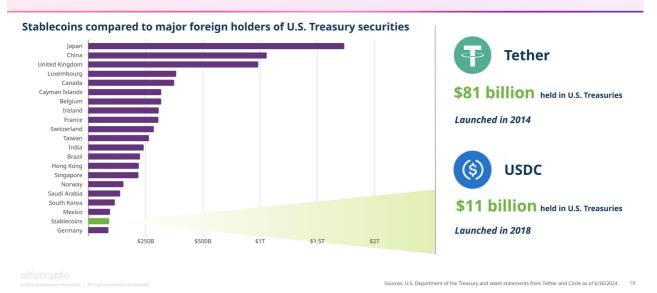
Stablecoins — which have become one of the most popular crypto products — are one of the biggest topics for policy discussion, with several bills already floating around Congress. One of the tailwinds, at least in the U.S., is the realization that stablecoins can fortify the U.S. dollar's position abroad even as the dollar's global reserve currency status slips. Today, more than 99% of stablecoins are denominated in USD, which dwarfs the next largest denomination: 0.20% in Euro.

Stablecoins can <mark>strengthen</mark> the U.S. dollar's position as its global reserve currency status slips



In addition to projecting the power of the American dollar around the world, stablecoins are potentially strengthening the country's financial footing at home. Despite being only a decade old, stablecoins have risen to become a top 20 holder of U.S. debt, putting them ahead of countries like Germany.

Stablecoins are only a decade old — now they're a Top 20 and rising holder of U.S. debt



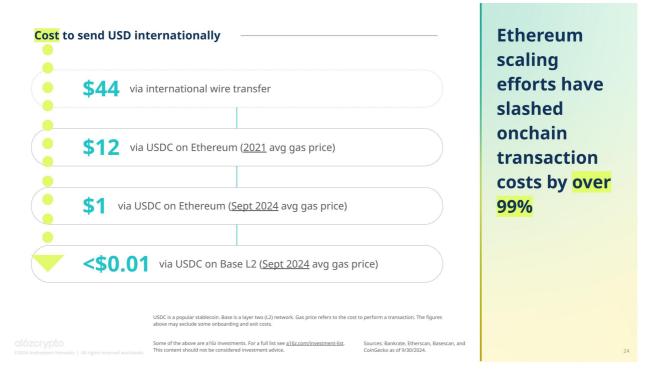
While some countries are exploring central bank digital currencies (CBDCs), the stablecoin opportunity sitting right in front of the U.S. is ripe for the taking. Between these discussions and the number of prominent political figures now weighing in about crypto generally, we expect more countries will start to flesh out their crypto policies and strategies in earnest.

3. Stablecoins have found product-market fit

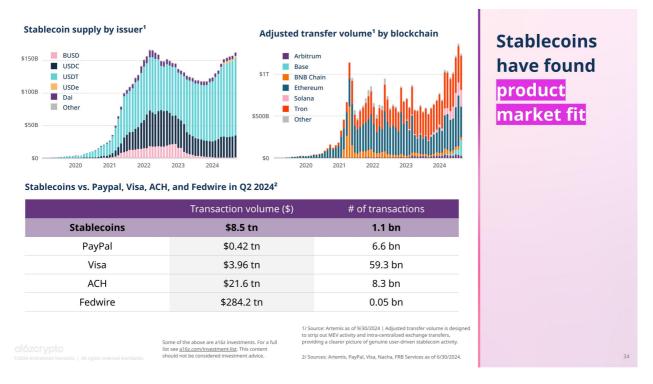
By enabling fast, cheap, global payments, among other uses, stablecoins have become one of crypto's most obvious "killer apps". Indeed, as Rep. Ritchie Torres (D-N.Y.) wrote in September in a *New York Daily News* <u>op-ed</u>, "The proliferation of dollar stablecoins — rendered possible by the ubiquity of smartphones and the cryptography of blockchains — could become the greatest experiment in financial empowerment humanity has ever undertaken."

Major scaling upgrades have drastically reduced the cost to execute crypto transactions, including those involving stablecoins, in some cases by over 99%. On Ethereum, transactions involving USDC, a popular U.S. dollar-pegged stablecoin, cost on average \$1 in gas fees this month, down from \$12 on average in 2021. Sending USDC on Base, Coinbase's popular L2 network, costs less than a cent on average. (Note that these figures may exclude some onboarding and exit costs.)

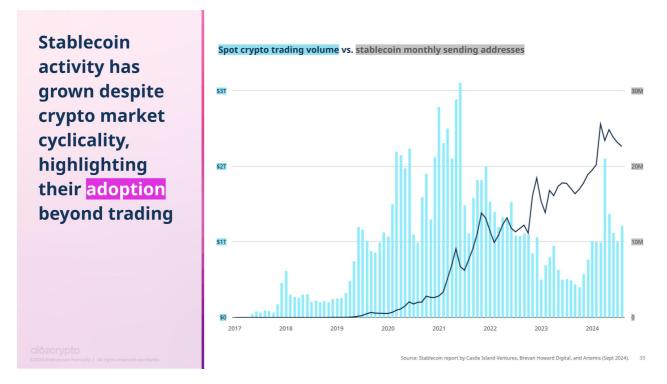
Compare these fees to the \$44 on average that it costs to send an international wire transfer.



Stablecoins make it easy to transfer value. They amounted to \$8.5 trillion in transaction volume across 1.1 billion transactions in the second quarter of 2024 ended June 30. Stablecoin transaction volumes *more than doubled* Visa's \$3.9 trillion in transactions over the same period. That stablecoins have entered the same conversation as such well-known and entrenched payment services as Visa, PayPal, ACH, and Fedwire is a remarkable testament to their utility.



Stablecoins aren't just a fad either. If you compare stablecoin activity against crypto's volatile market cycles, the two appear to be uncorrelated. Indeed, the number of monthly stablecoin-sending addresses has continued to increase even as spot crypto trading volumes have declined. In other words, people appear to be using stablecoins for more than just trading.



All that activity is reflected in usage stats. Stablecoins represent nearly a third of daily crypto usage at 32%, second only to decentralized finance, or DeFi, at 34%, as measured by share of daily active addresses. The rest of crypto's usage is spread across infrastructure (bridges, oracles, maximum extractable value, account abstraction, etc.), token transfers, and a smattering of other areas, including emerging applications such as gaming, NFTs, and social networking.

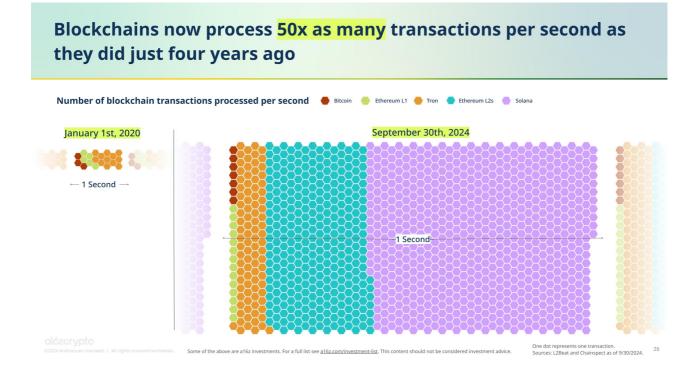
DeFi and stablecoins dominate crypto usage today — emerging categories include gaming and social

Decentralized finance (DeFi) 34%	Stablecoins 32%	Infra (bridges, oracles, MEV, account abstraction, etc. 14%	transf	Token transfers 13%	
		Centralized exchanges 3%	Gaming 2%	NFTs 1%	Soc <1%

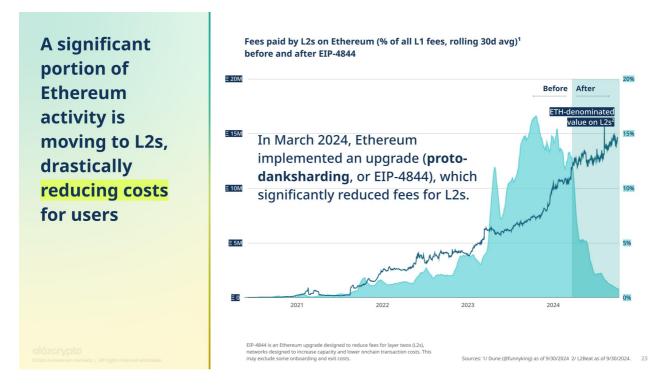
Category breakdown by daily active addresses (all blockchains)

4. Infrastructure improvements have increased capacity and drastically reduced transactions costs

One reason why stablecoins have gotten so popular and easy to use is due to underlying infrastructure advances. For one thing, blockchain capacity is growing. Blockchains are processing more than 50 times as many transactions per second as they were just four years ago thanks to the rise of Ethereum L2 networks and other high-throughput blockchains.



More staggeringly, Ethereum's biggest upgrade of the year — "<u>Dencun</u>," also called "<u>protodanksharding</u>" or EIP-4844 — significantly reduced fees for L2 networks after its implementation in March 2024. Since then, the fees paid by L2s on Ethereum have plummeted even as ETH-denominated value on L2s has continued to rise. In other words, blockchain networks are getting more popular — and more efficient — all at once.

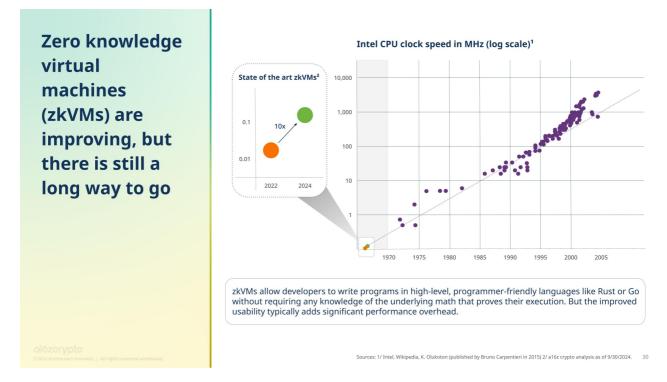


It's a similar story for <u>zero knowledge</u> (ZK) proofs, another technology that has important implications for blockchain scaling, privacy, and interoperability. Even as the amount spent monthly to verify <u>ZK proofs</u> on Ethereum has declined, ETH-denominated value on ZK rollups has increased. In other words, ZK proofs are getting cheaper, too, even as they're getting more popular. (We use zero knowledge here as a catchall for cryptography that can succinctly prove that computations offloaded to rollup networks were performed correctly.)

Zero knowledge proofs may be the endgame for blockchain privacy, scaling, and interoperability



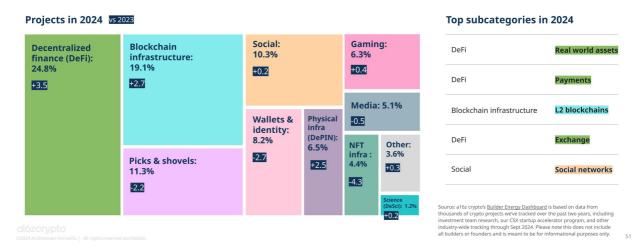
ZK technology is extremely promising as it opens new pathways to cheap, verifiable blockchain compute for developers. Still, <u>ZK-based virtual machines</u> (zkVMs) have a long way to go before they can catch up to the performance of traditional computers — a humbling observation to note.



With all of these infrastructure improvements, it's easy to see why blockchain infrastructure remains one of the most popular categories for builders and why L2s have become one of the top 5 hottest builder subcategories that we're tracking.

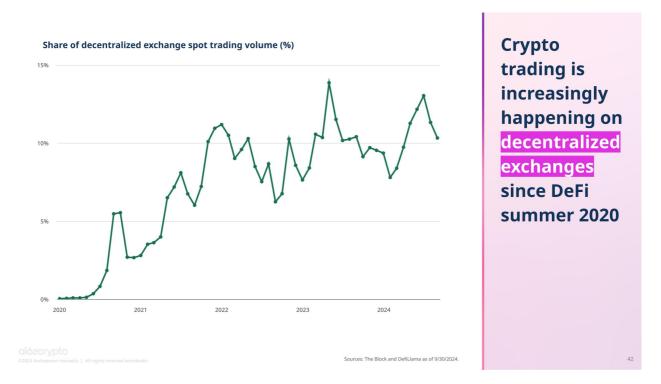
DeFi, blockchain infrastructure, and DePIN are some of the hottest categories in 2024 for builder activity

Builder activity by category Our breakdown of the areas in which projects are building

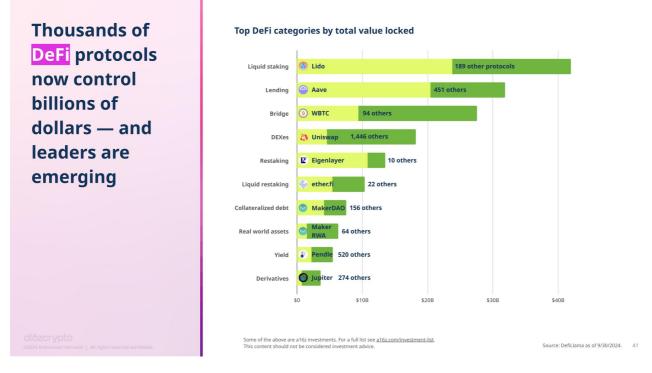


5. DeFi remains popular — and it's growing

The only category attracting builders more than blockchain infrastructure is decentralized finance, or DeFi (which also accounts for the most crypto usage at 34% of daily active addresses). Since DeFi's arrival in the summer of 2020, decentralized exchanges, or DEXs, have grown to account for 10% of spot crypto trading activity — all of which occurred on centralized exchanges just four years ago.

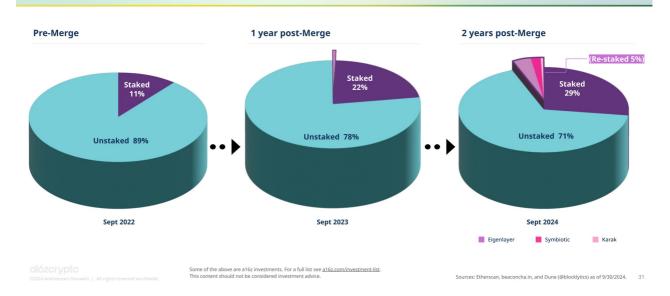


More than \$169 billion is now locked inside thousands of DeFi protocols. Some of the top DeFi subcategories involve staking and lending.



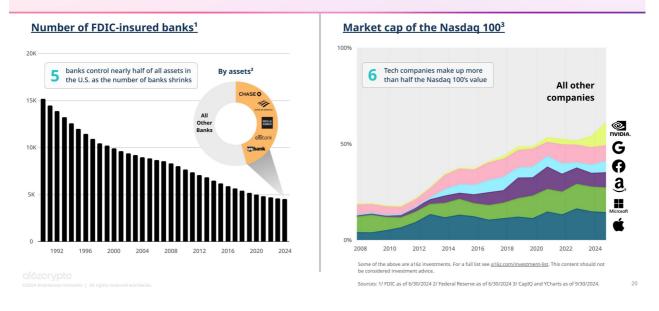
It's been just over two years since Ethereum completed its transition to <u>proof-of-stake</u>, drastically reducing the network's energy consumption and environmental footprint. Since then, the share of Ether being staked has risen to 29%, up from 11% two years prior, greatly enhancing the security of the network.

The share of ETH being staked — and sometimes re-staked — is up and it's increasing the security of the network



While still in its early stages, DeFi presents a hopeful alternative to the trend of centralization and power consolidation afflicting the U.S. financial system, where the number of banks has dropped by two-thirds since 1990 and where an increasingly small share of big banks dominate assets.

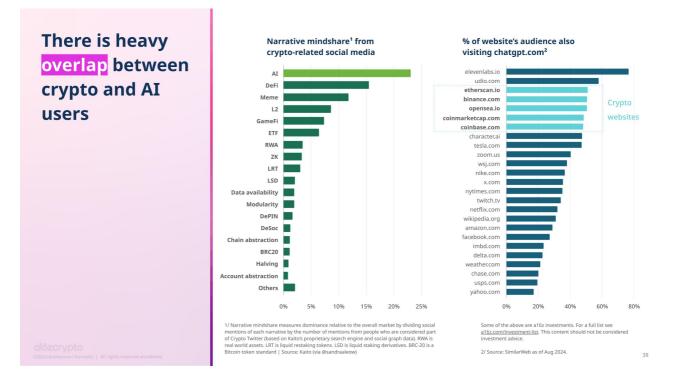
As finance and tech <mark>consolidate</mark> power in Big Banks and Big Tech, there's a growing need for decentralization



6. Crypto could solve some of Al's most pressing challenges

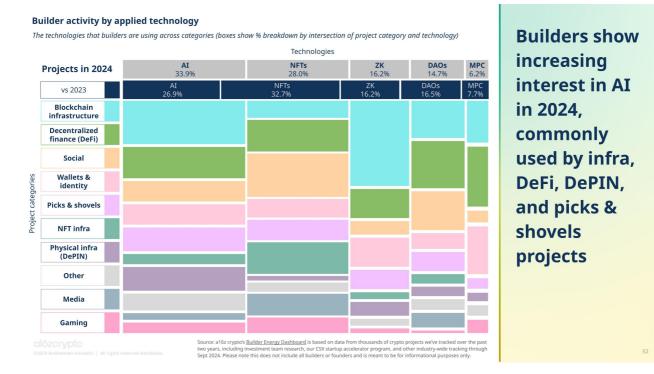
Al is one of the hottest trends this year, not only in tech broadly, but also in crypto specifically.

Al is one of the most talked about trends among crypto influencers on social media. Perhaps more surprisingly, there's major overlap between visitors to chatgpt.com and visitors to top crypto websites, indicating strong ties between crypto and Al users.

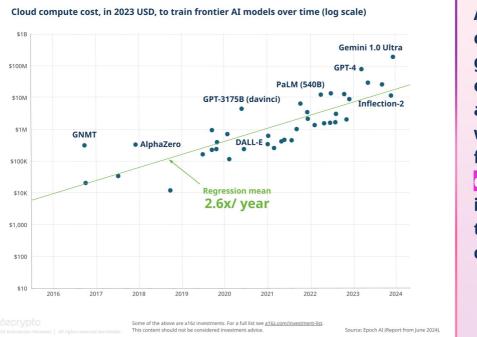


Crypto builders also have strong ties to AI. About a third of crypto projects — 34% — say they're using AI, regardless of the category in which they're building, up from 27% a year ago, per our <u>Builder Energy dashboard</u>. The most popular category for applied AI tech is

blockchain infrastructure projects.



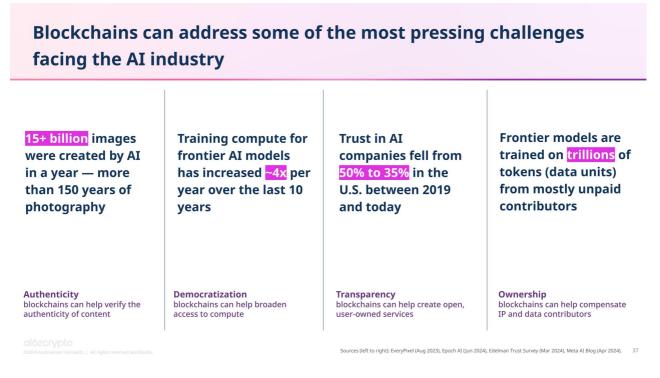
Given that the cost of training frontier AI models has increased at four-times per year over the past 10 years, we believe AI could trend toward increasing centralization of power on the internet. Left unchecked, only the biggest tech companies may have the resources to train the latest AI models.



AI training costs are growing exponentially, a trend that we believe favors power centralization in the biggest tech companies

Al's centralization-related challenges are almost exactly the inverse of the opportunities for decentralization presented by blockchain networks. Crypto projects are already attempting to tackle some of these challenges today, including Gensyn (by democratizing

access to AI compute), Story (by tracking IP to help compensate creators), Near (by running AI on open source, user-owned protocols), and Starling Labs (by helping to verify the authenticity and provenance of digital media), to name a few.

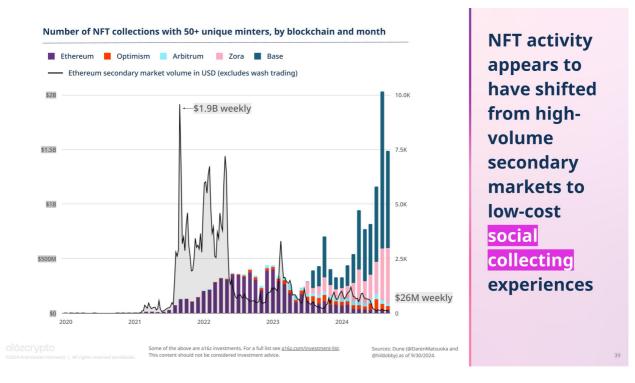


The crossovers between crypto x AI may strengthen in the years ahead.

7. More scalable infrastructure has unlocked new onchain applications

As transaction costs come down and blockchain capacity goes up, many other potential crypto consumer apps become possible.

Take NFTs, for instance. When crypto transactions were much more expensive a few years ago, people were trading NFTs on secondary markets for large sums totaling billions of dollars. That activity has since subsided, and in its place has risen a new consumer behavior: minting low-cost NFT collections on social apps like Zora and Rodeo. This represents a significant shift for the NFT market, one that was largely inconceivable before a drastic reduction in transaction fees.



Social networks are another example. Even though they account for only a small portion of daily onchain activity today, they're attracting strong builder activity: 10.3% of crypto projects are social-related in 2024, per our <u>Builder Energy dashboard</u>. In fact, social network-related projects, such as those related to Farcaster, are one of the top 5 hottest builder subcategories this year.



While builders and consumers explore more social experiences, onchain games are pushing blockchain scaling to its limits. Rollups such as those used by Proof Of Play's high-seas adventure role playing game Pirate Nation are consistently using the most gas per second of any Ethereum rollups.

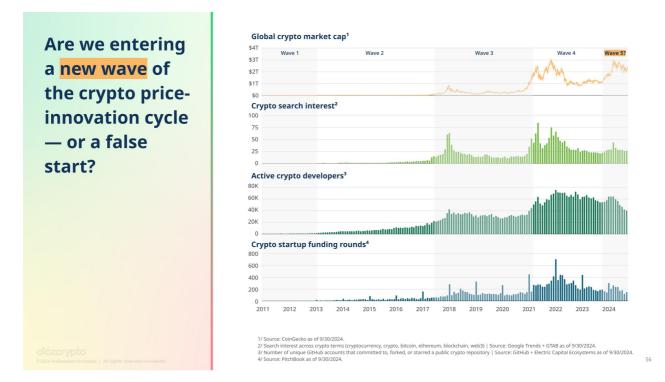
Games — long a	Ethereum and its rollups sorted by mega gas used per second (Sept 30, 2024)						Gaming blockchain			
source of	TOTALS TPS Mgas/s						KB/s			
	348.70			Mgas/s 62.80		1	172.93			
innovation in	(19.81x)			(51.48x)		(30.23x)				
software — are	Network	Block	TPS	Mgas/s	KB/s	Stack	DA	Settlement		
	ProofOfPlay - Apex	50697139	16.5	16.45	10.96	arbitrum-nitro	anytrust	arbitrum		
pushing	Base	20464204	61.0	9.89	39.32	op-stack	blobs	ethereum		
	ProofOfPlay - Boss	9803692	9.7	7.04	6.41	arbitrum-nitro	anytrust	arbitrum		
blockchain	Xai	43321074	138.3	6.78	27.82	arbitrum-nitro	anytrust	arbitrum		
scaling to its	WINR Chain	11813418	8.4	3.54	6.99	arbitrum-nitro	anytrust	arbitrum		
scaling to its	Gravity	8325837	44.5	3.29	18.65	arbitrum-nitro	anytrust	ethereum		
limits	ArbitrumOne	258987100	15.3	3.04	11.67	arbitrum-nitro	blobs	ethereum		
IIIIIIII	OP Mainnet	126059489	9.5	2.78	8.96	op-stack	blobs	ethereum		
	Blast	9453969	6.2	2.72	7.73	op-stack	blobs	ethereum		
	Mode	13775085	1.0	1.30	0.80	op-stack	blobs	ethereum		
	Ethereum	20865003	17.6	1.22	5.72	ethereum	ethereum	ethereum		
	Ham	11127023	0.8	1.04	7.33	op-stack	celestia	base		
	Scroll	9751915	4.3	0.97	2.44	scroll	blobs	ethereum		
	Linea	10146944	12.7	0.95	4.96	linea	blobs	ethereum		
	Mantle	69793722	4.9	0.91	2.39	op-stack	mantle	ethereum		
	Zora	20511958	0.7	0.60	0.86	op-stack	blobs	ethereum		
	Some of the above are a16z inv <u>a16z.com/investment-list</u> . This considered investment advice.		e	These rollups an	e networks bui	lt on Ethereum designed to in Source: rollup.wtf (built by	1 /			

As the November election approaches, crypto-based prediction markets are having a moment — despite their illegality in the U.S. — and momentum is building for prediction markets in general. So much so that Kalshi, a non-crypto-based prediction market that's registered with the U.S. Commodity Futures Trading Commission, gained a win in a lower court last month as it pursues a federal lawsuit around listing elections contracts. (As of now, registered exchanges are allowed to offer elections-based traditional futures contracts.)

Interest in crypto-based prediction markets is skyrocketing, especially around elections



Glimmers of novel consumer behaviors are beginning to be discernible. All these new and emerging experiences were intractable when blockchain infrastructure was clunkier and transaction costs were higher. As the blockchains improve along classic tech price-performance curves, expect more of these applications to thrive.



Where does that leave us? The state of crypto has made significant strides across policy, technology, consumer adoption, and more over the past year. There were policy milestones, including the sudden approval and listing of Bitcoin and Ethereum ETPs, as well as the passage of significant bipartisan crypto legislation. There were major infrastructure improvements, from scaling upgrades to the rise of Ethereum L2s and other high-throughput blockchains. And there were new apps being built and used, from the growth of mainstays like stablecoins to explorations of more nascent categories like AI, social networking, and games.

Whether we have entered the fifth wave of the <u>price-innovation cycle</u>, our framework for understanding the ups and downs of crypto's many market cycles, remains to be seen. Either way, crypto, as an industry, has made inarguable progress over the past year. And as ChatGPT has proven, it can take just one breakout product to shift an entire industry.

Sign up for a16z crypto's biweekly newsletter <u>here</u>. And for more regular data updates, keep an eye on our <u>State of Crypto Index</u>, an interactive tool, updated monthly, that tracks the health of the crypto industry from a technological, rather than financial, perspective through measures of industry rates of innovation and adoption. Also be sure to explore our new <u>Builder Energy dashboard</u>, which tracks where we're seeing the most "builder energy" across crypto.

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