

ABL Digital Cryptoglobal Weekly

Cross-Exchange Crypto Analytics | week ending 2026-10-05

15 majors + derivatives, options & flows | BTC dominance 59% | 1827 days



REGIME: Risk-on

EXECUTIVE SUMMARY

The regime model puts a 0.687 posterior on Risk-on with only 0.056 on Risk-off, and the composite risk-appetite scorecard reads +0.66, driven by coin breadth (+1.33) and alt appetite (+0.87). The tape is broad, not BTC-led: 71% of majors beat Bitcoin over 30 days while BTC dominance sits at 58.7%, so the lean is toward staying risk-on with a deliberate tilt down the quality curve rather than concentrating in BTC. Favoured on the quantitative work: BTC itself on the fair-value read, DOGE on the cheap residual, and the high-beta L1 momentum cohort (NEAR +129% 30d, SUI +49%, AVAX +43%). Faded: ETH and SOL on valuation, and LINK after a -10.6% week that the model says is not cheap.

Three developments matter this week. BTC screens 31.3% cheap to equities, the dollar and rates (z -1.33) on a 0.76 R^2 model, the cleanest valuation signal in the briefing and an argument for holding core BTC exposure. The BTC~Nasdaq DCC correlation is only +0.34 with low persistence (0.71), so crypto is trading on its own flows rather than as a macro proxy, which reduces the hedging value of equity shorts. Funding is flat-to-negative (BTC -0.001%/8h) and basis is -6bp with DVOL at 36.4, so this rally is not leveraged and the options market is not charging much for protection.

The main risk is that single-factor concentration (PC1 64% of majors' variance) turns a BTC break into a complex-wide drawdown, with ES5 at -16.6% for BTC and -29.4% for SOL. Watch spot against the 80,000 max-pain level, dominance above 60%, BTC~Nasdaq rising through +0.50, and stablecoin supply (+0.3% 7d on \$313bn) turning negative.

Crypto Dashboard

Market state and the week's key readings across majors, options and flows.

REGIME Risk-on	BTC DOM 59%	BTC DVOL 36	FEAR&GREED 70
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MAJORS (price | 7d | 30d | 90d)

BTC	85,210.76	+2.0%	+6.7%	+34.6%
ETH	2,696.40	+0.3%	+8.7%	+52.5%
SOL	119.30	+0.4%	+15.6%	+47.9%
BNB	786.74	+3.0%	+2.6%	+36.4%
XRP	1.49	-0.3%	+5.6%	+34.2%
DOGE	0.09	+0.8%	+5.5%	+27.5%
ADA	0.26	+6.8%	+20.7%	+51.2%
AVAX	10.86	+2.5%	+43.0%	+62.3%
LINK	13.80	-10.6%	+14.6%	+75.7%
TRX	0.34	+0.3%	+0.7%	+1.5%
DOT	1.19	+1.1%	+30.4%	+40.3%
NEAR	5.02	+4.2%	+129.2%	+154.3%
LTC	70.04	+1.2%	+28.1%	+59.5%
BCH	315.26	+1.6%	+22.6%	+31.6%
SUI	1.19	+1.7%	+49.3%	+63.1%

ETH/BTC 0.03164 | alt-breadth 71% of majors beating BTC (30d)

CRYPTO CROSS-ASSET SCORECARD

Crypto risk appetite and the macro (equity/dollar/rates) backdrop that drives it

CRYPTO RISK APPETITE

Risk-on

score +0.66

risk-off (-1.5)

(+1.5) risk-on



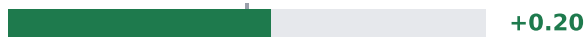
coin breadth



btc trend



low concentration



alt appetite



equity vix



MACRO BACKDROP (equity/dollar/rates)

Neutral backdrop

score -0.07

headwind (-1.5)

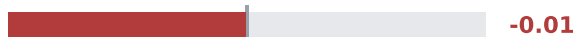
(+1.5) supportive



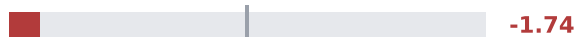
equity momentum



weak dollar



low us rates



low equity vol



Each component is a multi-year z-score, sign-aligned so higher = risk-on / more supportive; the headline is their average. The macro backdrop reads equity momentum, the dollar, US rates and equity volatility — crypto's key drivers.

WHAT CHANGED THIS WEEK

Week-over-week moves and how the market-state readings shifted · 2026-10-05

TOP GAINERS

AAVE	+22.3%
MKR	+17.0%
ICP	+11.1%
ADA	+6.8%
NEAR	+4.2%
BNB	+3.0%
ATOM	+2.7%
AVAX	+2.5%

TOP DECLINERS

HBAR	-17.3%
LINK	-10.6%
XLM	-8.8%
ETC	-4.5%
VET	-3.1%
APT	-1.6%
XRP	-0.3%
OP	-0.3%

KEY LEVELS — week-over-week

BTC	85,210.8	+2.0%	Gold	4,161.9	-0.2%
ETH	2,696.4	+0.3%	DXY	102.2	+1.0%
SOL	119.3	+0.4%	VIX	15.6	-0.5
XRP	1.5	-0.3%	US 10Y	5.3	+0.1
Nasdaq	27,398.9	+2.2%	S&P 500	7,761.5	+1.0%

MARKET-STATE READINGS — now vs prior report

Regime	prior: R+	->	Risk-on
Risk appetite	prior: +0.65	->	+0.66
Macro backdrop	prior: +0.02	->	-0.07
PC1 share	prior: 48	->	48%

The fastest orientation: what actually moved and how the headline state shifted since last week. VIX/rate/spread increases are shown as adverse (red).

Cryptoglobal Analysis

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Three developments matter this week. BTC screens 31.3% cheap to equities, the dollar and rates (z -1.33) on a 0.76 R^2 model, the cleanest valuation signal in the briefing and an argument for holding core BTC exposure. The BTC~Nasdaq DCC correlation is only +0.34 with low persistence (0.71), so crypto is trading on its own flows rather than as a macro proxy, which reduces the hedging value of equity shorts. Funding is flat-to-negative (BTC -0.001%/8h) and basis is -6bp with DVOL at 36.4, so this rally is not leveraged and the options market is not charging much for protection.

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Regime, Scorecard & Market State

The Markov filter on BTC assigns 0.687 to Risk-on, 0.257 to Neutral and 0.056 to Risk-off, which is a confident but not extreme reading over 1,827 days of history. What makes it credible is that the independent composite agrees: the risk-appetite scorecard at +0.66 is built from coin breadth (+1.33), alt appetite (+0.87), equity VIX (+0.63), BTC trend (+0.26) and low concentration (+0.20) — every component positive, with no single input carrying the score. Breadth doing the heavy lifting rather than BTC trend is the signature of a mid-cycle risk-on tape rather than a Bitcoin-led repricing.

The macro backdrop is the dissenting voice at -0.07, Neutral. Equity momentum contributes +0.83 and low equity vol +0.63, but low US rates reads -1.74 — rates are high and that is a real drag. The dollar is a non-factor at -0.01. The useful inference is that crypto is currently advancing despite the rates component, not because of it, which means the rally rests on internal flows and positioning rather than a macro tailwind that can be relied upon. Sentiment at 70 (Greed), easing from 74 a week ago, is warm enough to warrant attention but short of the 80+ territory where Fear & Greed historically marks local exhaustion. Total market cap of \$2.92tn with 90-day returns clustered between +28% (DOGE) and +154% (NEAR) describes a market that has already repriced substantially; the 7-day column is the more sober read, with BTC +2.0%, ETH +0.3% and SOL +0.4%, which says the move paused this week rather than extended.

Bitcoin Dominance & Alt-Season

BTC dominance at 58.7% against 71% of majors beating BTC over 30 days is the central tension in this briefing. Dominance at that level is historically high enough that a naive read would call this a Bitcoin market, but the breadth number contradicts it: nearly three-quarters of the majors are outperforming. The reconciliation is that dominance is a market-cap share measure dominated by BTC's own size, and it moves slowly; breadth measures participation and moves first. Breadth leading dominance is the normal sequencing of an early-to-mid alt rotation — alts outperform for weeks before the dominance line visibly rolls over.

ETH dominance of 11.3% and ETH/BTC at 0.0316 qualify the alt-season call in an important way. This is not an ETH-led rotation. Ether's 7-day return is +0.3% and its 30-day +9% against SOL +16%, ADA +21%, AVAX +43%, DOT +30% and NEAR +129%. Capital is moving past ETH into the smaller, higher-beta L1s, which is a later-cycle characteristic and a lower-quality kind of breadth than an ETH-led move. For

Cryptoglobal Analysis (cont.)

positioning, that argues for expressing alt exposure selectively in the names with real momentum and accepting that the beta is being paid for in tail risk, rather than treating "alt season" as a reason to own the complex indiscriminately. The practical marker to watch is dominance: a sustained break below 58% alongside breadth holding above 70% would confirm the rotation; dominance pushing back above 60% while breadth fades would mean the alt trade is over and BTC is the only thing worth owning.

Factor Structure & Systemic Risk

The PCA across 39 instruments puts PC1 (Ethereum/crypto beta) at 48% of variance, with PC2 equity risk at 9%, PC3 US rates at 6% and PC4 gold inverse at 4%. Restricted to the majors alone, PC1 explains 64%. Both numbers say the same thing: this market has one dominant factor, and it is crypto beta. An investor holding eight alts does not hold eight positions — roughly half to two-thirds of the variance in that book is a single directional bet. The gap between 48% across the broad instrument set and 64% within majors shows the concentration is tightest exactly where most portfolios sit.

The implication is that diversification within crypto is largely illusory and the only genuine risk control is gross exposure. Choosing NEAR over SOL changes the beta of the bet, not its direction. The second-order factors are small enough (9% equity, 6% rates) that macro hedges are poorly matched to the actual risk being carried, a point the DCC correlations reinforce below.

Systemic co-movement, measured as the average pairwise conditional correlation across 12 assets via MV-DCC, sits at +0.33 now against +0.32 a year ago, with persistence 0.8617. That is the constructive detail in this section. The complex is not currently in a correlation-crisis state — +0.33 is moderate, and the fact that it has barely moved in a year means the current rally has not been accompanied by the correlation spike that typically precedes or accompanies systemic stress. High persistence means the level is sticky, so an upward break would be informative rather than noise. A move in average pairwise correlation toward +0.50 or above would signal the complex has begun moving as one block, at which point the single-factor concentration described above converts from a theoretical to a realised risk.

Cross-Asset Correlation & Lead-Lag

The DCC-GARCH BTC~Nasdaq conditional correlation is +0.34, against an unconditional 365-day reading of +0.43 and a 90-day of +0.34, with persistence of only 0.7136. Crypto is not currently trading as a pure macro risk asset. At +0.34 there is a shared risk-appetite component, but it is a minority of the variance, and the relatively low persistence means this relationship is less stable than the intra-crypto ones and can shift quickly. Two consequences follow. An equity hedge against a crypto book is inefficient at this correlation — it removes a third of the exposure at best. And crypto drawdowns from here are more likely to be endogenous (leverage, flows, a single-name failure) than imported from equities.

The other cross-asset readings have moved meaningfully on the 90-day window. BTC~Gold has risen to +0.52 from +0.20 over 365 days, BTC~DXY has deepened to -0.34 from -0.18, and BTC~US 10Y has gone to -0.28 from -0.05. Taken together, that is a debasement-and-duration profile: Bitcoin is behaving more like a long-duration store-of-value asset that dislikes a strong dollar and high real rates, and less like a leveraged Nasdaq proxy. That is a cleaner, more durable narrative than high-beta tech, and it aligns with the fair-value model showing BTC 31.3% cheap against exactly that equity-dollar-rates basket.

Within crypto the DCC readings are far tighter: ETH~BTC at +0.84 (persistence 0.9271) and SOL~BTC at +0.84 (persistence 0.9999). The near-unity persistence on SOL~BTC means that correlation effectively does not mean-revert on any tradeable horizon — SOL is a levered BTC expression and should be sized as one.

The Granger network identifies net leaders as US 10Y, Nasdaq, BNB and VIX, with followers XRP, DOGE, BTC and DXY. Rates and equity volatility leading crypto is consistent with macro conditions setting the envelope even while the contemporaneous correlation stays modest. BTC appearing as a follower rather than a leader is notable and argues for watching the rates and VIX complex as the earlier signal. The caveat matters more than the finding: weekly Granger predictive skill is modest. These are statistical

Cryptoglobal Analysis (cont.)

lead-lag relationships at low explanatory power, useful for ordering what to monitor and for setting priors, not for timing entries. No position should be taken on the strength of this network alone.

Relative Value & Fair Value

Five residual models clear the $R^2 \geq 0.4$ bar, and they are worth ranking by fit quality rather than headline cheapness. Bitcoin against equities, the dollar and rates is the standout: 31.3% cheap at z -1.33 on an R^2 of 0.76. High explanatory power with a residual beyond one standard deviation is the strongest combination available in this briefing, and it supports core BTC exposure independently of the regime and breadth arguments. Chainlink against ETH and BTC has the best fit at R^2 0.78 but a residual of only -1.3% and z -0.06, so despite LINK's -10.6% week the model says it is at fair value, not cheap — the drawdown has merely removed a prior richness. That is a useful discipline against buying the dip reflexively.

Dogecoin against BTC shows the largest residual, 41.7% cheap at z -1.65, on a weaker R^2 of 0.55. The z -score is the most extreme in the set and the direction is credible, but 0.55 means nearly half the variance is unexplained and the residual carries more model error than the BTC case. It is a tactical long with a wider confidence interval, not a conviction holding, and DOGE's appearance as a Granger follower reinforces that it moves late rather than leading.

On the expensive side, Ether against BTC and equities is 11.6% rich at z +0.51 on R^2 0.62, and Solana against ETH is 14.2% rich at z +0.29 on R^2 0.71. Neither z -score is extreme, so these are not short signals; they are funding candidates. An investor wanting alt exposure has a better entry point elsewhere, and reducing ETH or SOL to fund NEAR, SUI or AVAX momentum, or to add BTC at a 31% discount, is the trade the residuals actually support. The combination of ETH rich on valuation and ETH/BTC at 0.0316 with +0.3% on the week is a consistent picture of an asset that has lost the rotation leadership.

Derivatives, Options & Volatility

The derivatives picture is unusually clean. BTC perp funding is -0.001% per 8 hours, ETH +0.003% and SOL -0.002% — all effectively zero, with BTC and SOL marginally negative. Basis is negative across all three (BTC -6bp, ETH -4bp, SOL -6bp). Open interest of \$8.2bn in BTC, \$6.3bn in ETH and \$1.0bn in SOL is substantial but the pricing says it is not crowded long. For a market up 35% (BTC) to 154% (NEAR) over 90 days, the absence of positive funding and premium basis is the most constructive single fact in this briefing: the rally has been spot-driven, not leverage-driven, which removes the primary mechanism for a violent long liquidation cascade. It also means there is room for leverage to build, which is typically how these moves extend.

Options tell a complementary story. BTC DVOL at 36.4 is low for crypto, and the IV term structure is in gentle contango from 27 on 06Oct to 33 on 16Oct, with no event hump. Put/call open-interest ratio is 0.56, meaning calls outnumber puts nearly two to one, and 25-delta skew is +9.4. That skew is the one genuinely stretched reading: call-over-put pricing at that level says the options market is positioned for upside and charging very little for downside. Combined with DVOL at 36.4, protection is cheap in both absolute and relative terms, which is the actionable asymmetry here — hedging a risk-on book costs little right now, and that is a better use of the setup than adding upside convexity at inflated skew.

Max pain for BTC sits at 80,000 against spot of 85,941, roughly 7% below. Dealer positioning therefore exerts a mild downward pull into expiry, and 80,000 is the level where options-driven flow would be expected to stabilise. ETH shows the same shape with higher absolute vol: DVOL 48.8, put/call 0.56, skew +7.1, max pain 2,450 versus spot 2,712, and a steeper IV term from 30 to 43 by 16Oct. The 12.4-point DVOL gap between ETH and BTC quantifies the extra volatility being taken on in ETH, which sits awkwardly against the model showing ETH 11.6% rich — more volatility for a worse valuation.

Cryptoglobal Analysis (cont.)

Flows, Stablecoins & the OTC Question

True OTC volume is not observable. Block trades negotiated bilaterally between desks do not print to public venues and are not reported in aggregate, so any specific OTC figure in circulation is an estimate built on survey data or inference, and we do not produce one here. What we can observe is the on-chain and balance-sheet residue of that activity, and we treat it strictly as a proxy with known limitations.

Stablecoin supply stands at \$313bn, up 0.3% over seven days. That is the dry-powder measure: capital sitting in dollar-denominated tokens on exchange and in wallets, available to be deployed without a new fiat on-ramp. The \$313bn level is supportive of the risk-on reading, because a large stablecoin float is the precondition for sustained bids. The 0.3% weekly growth is the more informative number, and it is modest — this week saw capital held rather than added. Flat stablecoin growth alongside a flat week in spot (BTC +2.0%, ETH +0.3%) is internally consistent: the rally paused because new capital paused, not because capital left. The directional read matters more than the level going forward. Stablecoin supply turning outright negative would mark capital exiting the complex entirely and would be the earliest hard signal against the risk-on view.

DeFi TVL at \$97bn, up 1.2% on the week, grew four times faster than stablecoin supply. That divergence says existing on-chain capital is being put to work at higher risk rather than new capital arriving — consistent with the alt-breadth and high-beta L1 outperformance documented above, and with a market in which participants already positioned are extending rather than new entrants arriving. Read honestly, these two series describe engaged incumbent capital and absent marginal capital. That is a configuration that can sustain a grind higher but is thin support for a melt-up, and it leaves the tape more dependent on existing holders not selling than on new buyers appearing.

Tail Risk & What to Watch

The expected shortfall figures put concrete numbers on the cost of being wrong. BTC ES5 is -16.6% against a current drawdown of -30%; ETH ES5 -22.8% against -44%; SOL ES5 -29.4% against -53%. Two readings matter. First, the tail scales steeply with beta — a 5% tail event costs nearly twice as much in SOL as in BTC, which is the quantitative justification for sizing the high-beta L1 exposure smaller than conviction alone would suggest. Second, current drawdowns are materially larger than the modelled tails, meaning these assets remain well below prior highs even after a strong 90 days; the recovery is not complete, which is part of why the fair-value models read cheap.

The composite risk here is the interaction rather than any single metric: PC1 at 64% of majors' variance means a BTC break transmits to the whole complex, average pairwise correlation at +0.33 with 0.8617 persistence means that transmission would intensify as it happens, and ES5 tells you the magnitude. The mitigating factor is the derivatives picture — zero funding and negative basis mean there is no leverage overhang to amplify a decline, so the mechanical cascade risk is low even if the correlation risk is not.

Signals that would confirm the view: BTC holding above the 80,000 max-pain level; dominance drifting below 58% while alt breadth stays above 70%; stablecoin supply growth accelerating above its current 0.3% weekly pace; funding turning modestly positive without basis spiking, which would show leverage rebuilding in an orderly way; the regime posterior holding above 0.65 on Risk-on.

Signals that would change it: a decisive break of 80,000 in BTC, which removes the options-flow support and triggers the single-factor transmission described above; dominance reclaiming 60% with breadth falling under 50%, marking the end of the rotation and a defensive shift back to BTC-only; BTC~Nasdaq DCC rising through +0.50, which would mean crypto has re-coupled to equities and the -1.74 rates drag in the macro scorecard starts to bind directly; average pairwise correlation moving above +0.50; DVOL breaking above 50 from 36.4, with 25-delta skew compressing from +9.4 toward zero or inverting, which together would mark the options market repricing downside; stablecoin supply contracting outright; and funding turning sharply positive with basis above +30bp, which would rebuild the leverage overhang whose

Cryptoglobal Analysis (cont.)

current absence is the main thing underwriting this view.



PART I

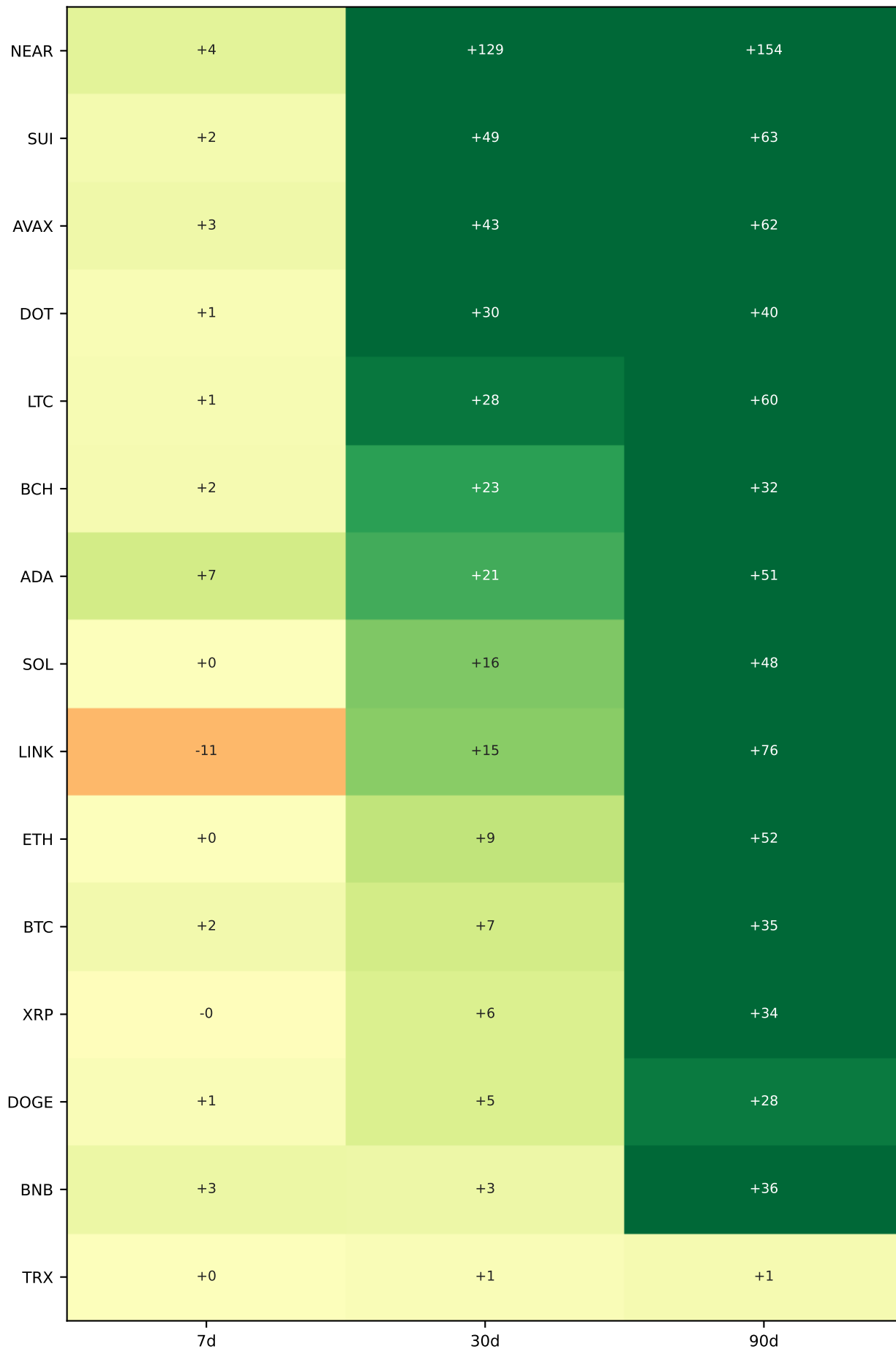
Market, Derivatives & Flows

The crypto tape, positioning and on-chain/derivatives internals.

- Returns, dominance & alt-season, derivatives (funding/OI/basis)
- Options (DVOL, put/call, skew, max-pain), stablecoins & DeFi TVL flows

Returns Heatmap

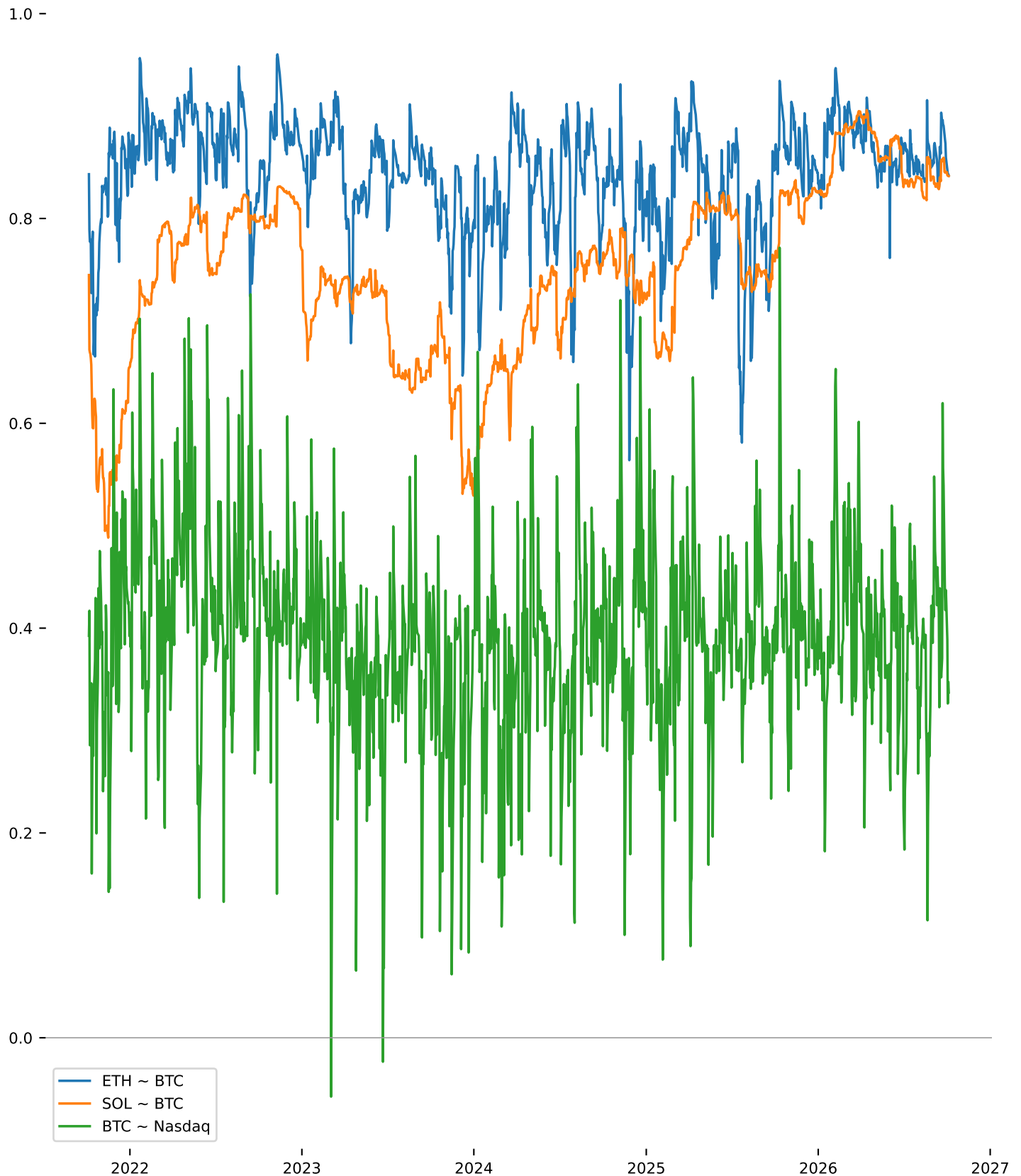
Price return (%) by coin over 7 / 30 / 90 days.



Regime & Conditional Correlations

Markov-switching regime on BTC: Risk-on. Posterior: Neutral 0.26, Risk-on 0.69, Risk-off 0.06

DCC-GARCH conditional correlation (BTC~ETH, SOL~BTC, BTC~Nasdaq)



Now: ETH ~ BTC +0.84, SOL ~ BTC +0.84, BTC ~ Nasdaq +0.34. A rising BTC~Nasdaq correlation = crypto trading as a macro risk-asset.

Perpetual Derivatives & Positioning

Binance USD-M perps: funding (leverage/sentiment), basis, open interest. Positive funding = longs pay shorts (crowded long).

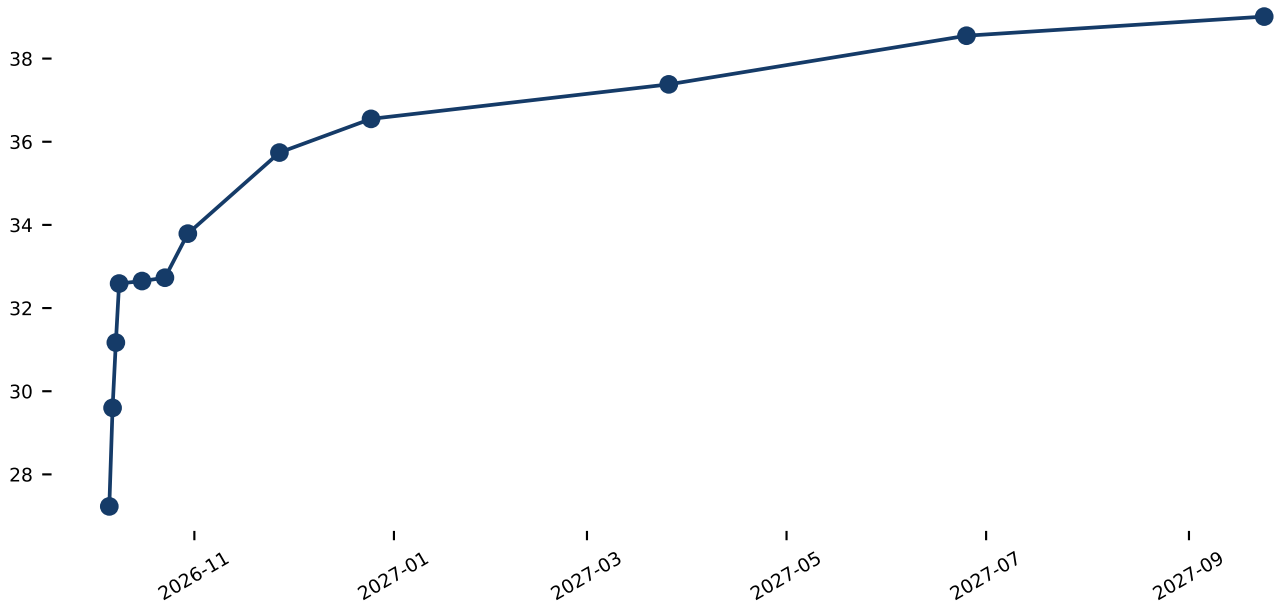
COIN	FUNDING %	BASIS (bp)	OI (\$bn)
BTC	-0.001	-6	8.16
ETH	+0.003	-4	6.31
SOL	-0.002	-6	1.01

Options & Volatility (Deribit)

BTC & ETH options: DVOL, open interest, put/call, max-pain, 25d skew and the implied-vol term structure.

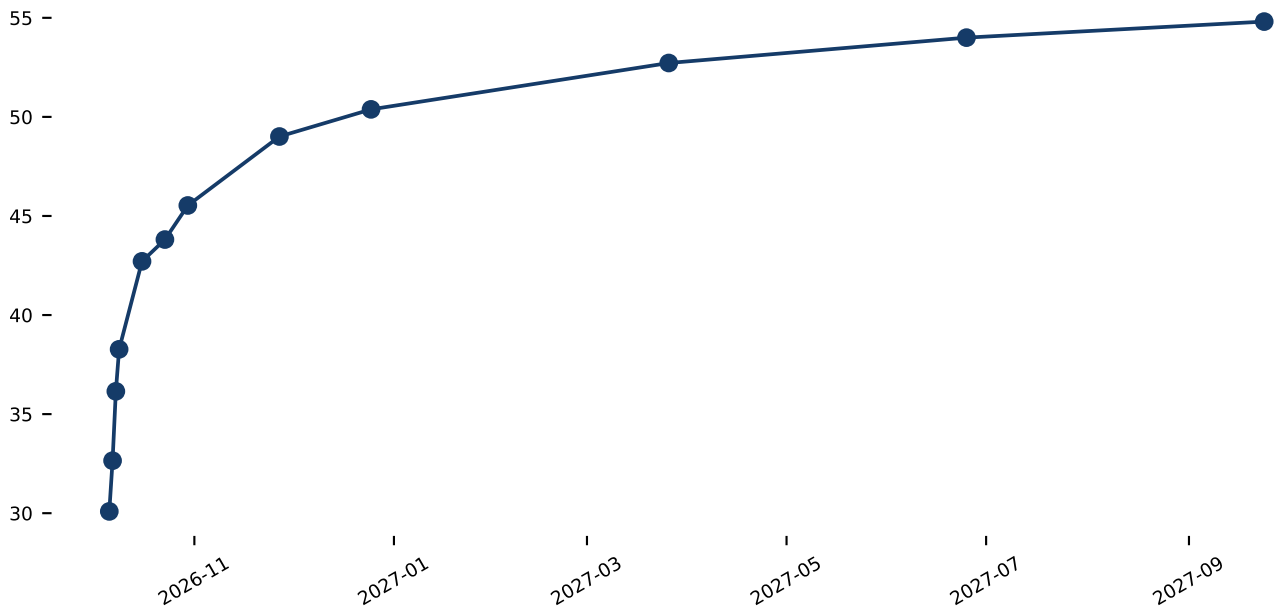
BTC DVOL 36.4 | OI 355,599 BTC | put/call 0.56 | max-pain 80,000 (spot 85,941) | 25d skew +9.4

BTC implied-vol term structure (ATM %)



ETH DVOL 48.8 | OI 1,328,387 ETH | put/call 0.56 | max-pain 2,450 (spot 2,712) | 25d skew +7.1

ETH implied-vol term structure (ATM %)



Flows, Stablecoins & the OTC Question

Stablecoin supply = fiat 'dry powder'; DeFi TVL = on-chain risk appetite. True OTC volume is opaque (private, off-order-book) and is PROXIED by these on-chain flows - there is no clean OTC tape.

Stablecoin supply	\$313 bn	+0.3% 7d
DeFi TVL	\$97 bn	+1.2% 7d
Fear & Greed	70 (Greed)	vs 74 a week ago
BTC dominance	58.7%	
Total crypto mcap	\$2.92 T	

Deeper on-chain (exchange net-flows/reserves, whale wallets, NUPL/SOPR) needs a paid on-chain key (Glassnode/CryptoQuant) - the free build uses stablecoin & TVL flows as the accumulation/distribution proxy.



PART II

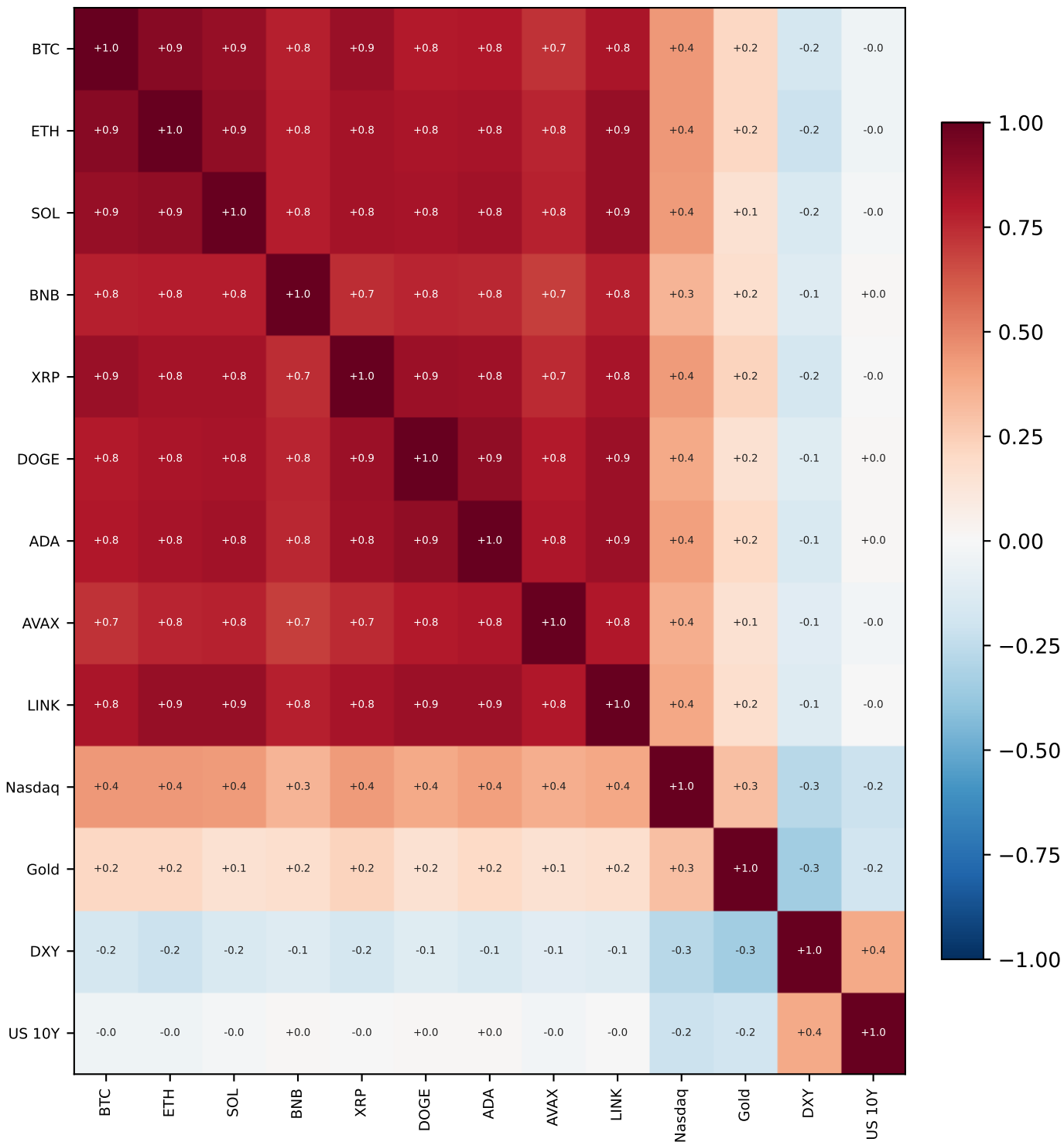
Cross-Asset Structure

How the coins and macro move together — factor structure, systemic co-movement, directional lead-lag and relative value.

- PCA factor model & multivariate DCC conditional-correlation
- Correlation, wavelet coherence, Granger causality & cointegration

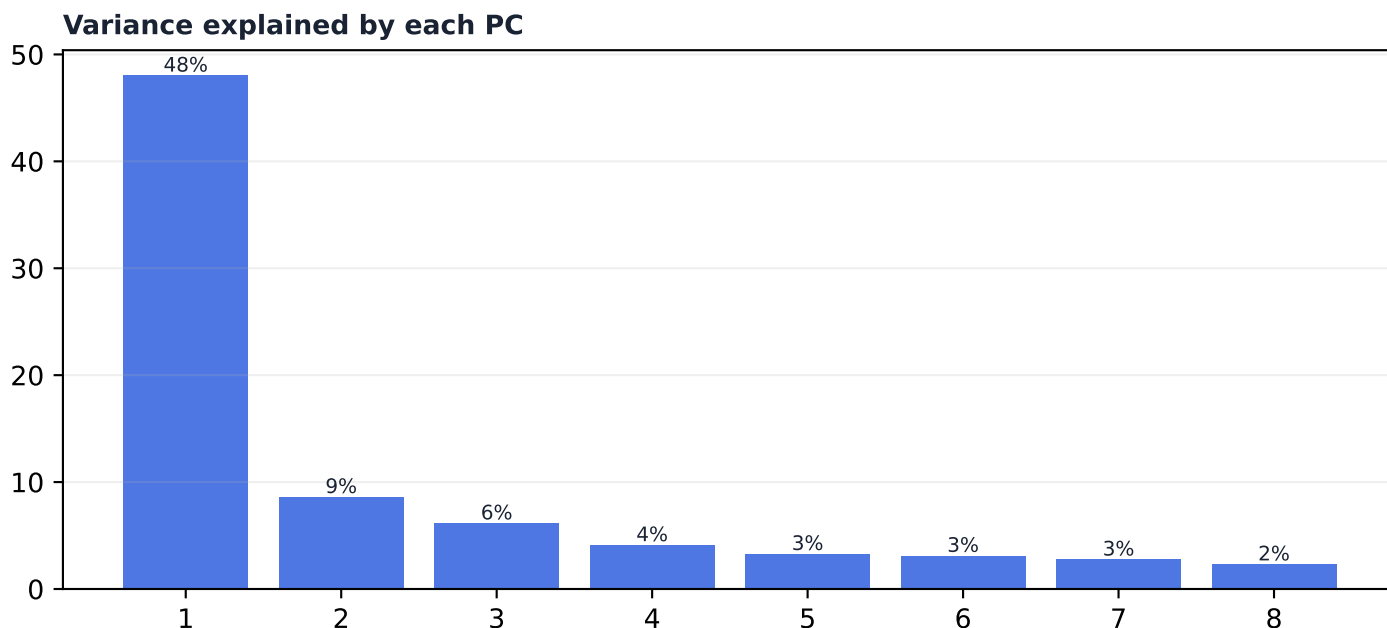
365-Day Correlation (daily returns)

Crypto majors + macro risk context.



CROSS-ASSET FACTOR STRUCTURE (PCA)

Independent forces driving the 39 instruments (156 weeks)



PC1 — Ethereum beta

48.0% of variance (cum 48%) · marker corr +0.85

+ DOT +0.21, ETC +0.20, ADA +0.20, VET +0.20, ARB +0.20
- VIX -0.08, DXY -0.03, US 10Y -0.01, US 2Y -0.01, Gold +0.00

PC2 — Equity risk (Nasdaq)

8.6% of variance (cum 57%) · marker corr +0.75

+ S&P 500 +0.43, EM Equity +0.42, Nasdaq +0.41, Silver +0.34, Gold +0.28
- VIX -0.37, DXY -0.24, US 2Y -0.13, US 10Y -0.13, DOGE -0.09

PC3 — US rates (10Y)

6.1% of variance (cum 63%) · marker corr +0.85

+ US 2Y +0.57, US 10Y +0.55, DXY +0.24, Nasdaq +0.21, S&P 500 +0.19
- VIX -0.23, Gold -0.17, ICP -0.14, FIL -0.14, DOT -0.10

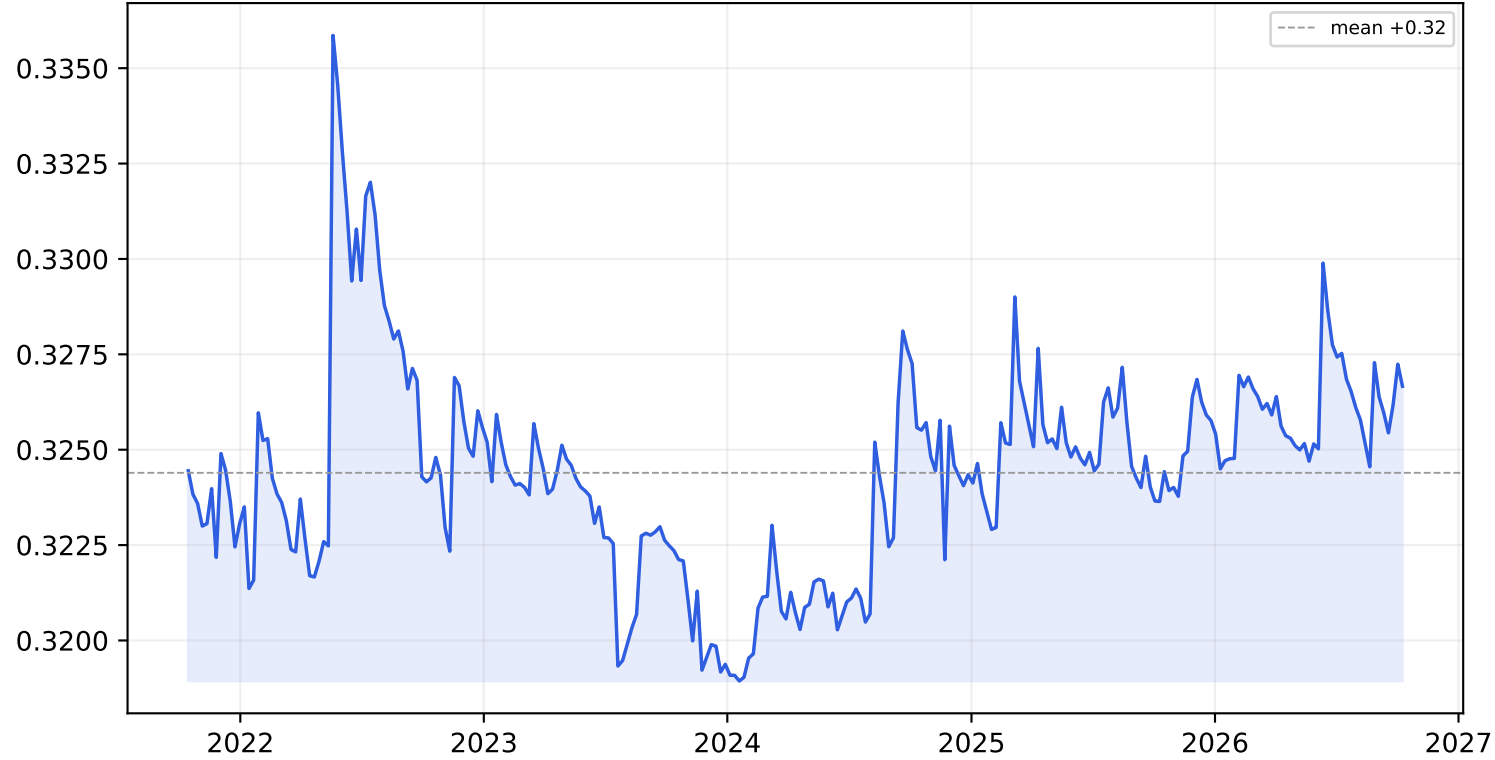
PC4 — Gold (inverse)

4.1% of variance (cum 67%) · marker corr -0.72

+ S&P 500 +0.25, Nasdaq +0.24, DXY +0.21, TRX +0.11, LTC +0.08
- Gold -0.57, Silver -0.49, US 10Y -0.25, US 2Y -0.23, VIX -0.19

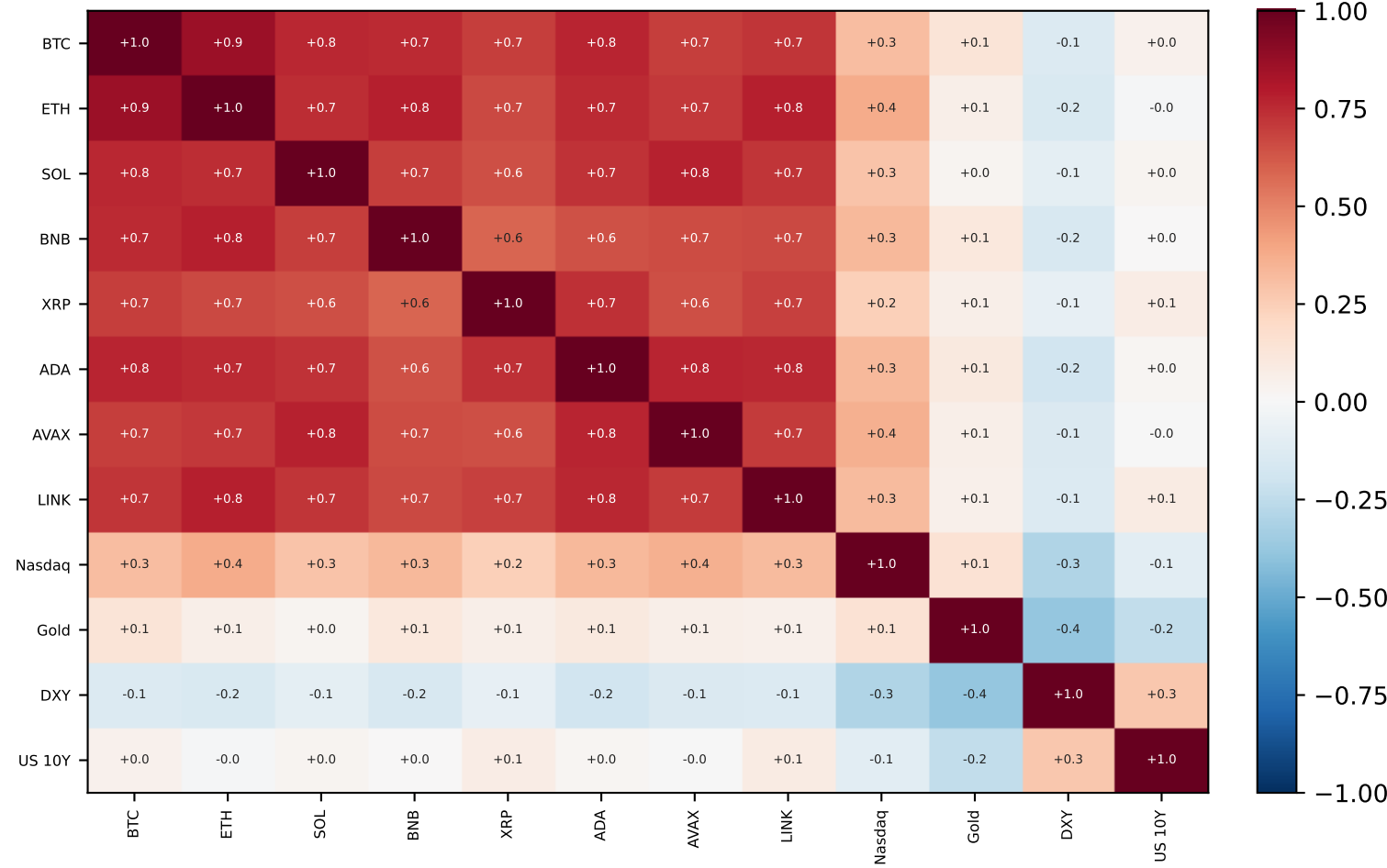
Principal components are the uncorrelated factors explaining the most joint variance. A high PC1 share means one force (usually broad risk) dominates — diversification is thin.

Average pairwise conditional correlation (multivariate DCC-GARCH)

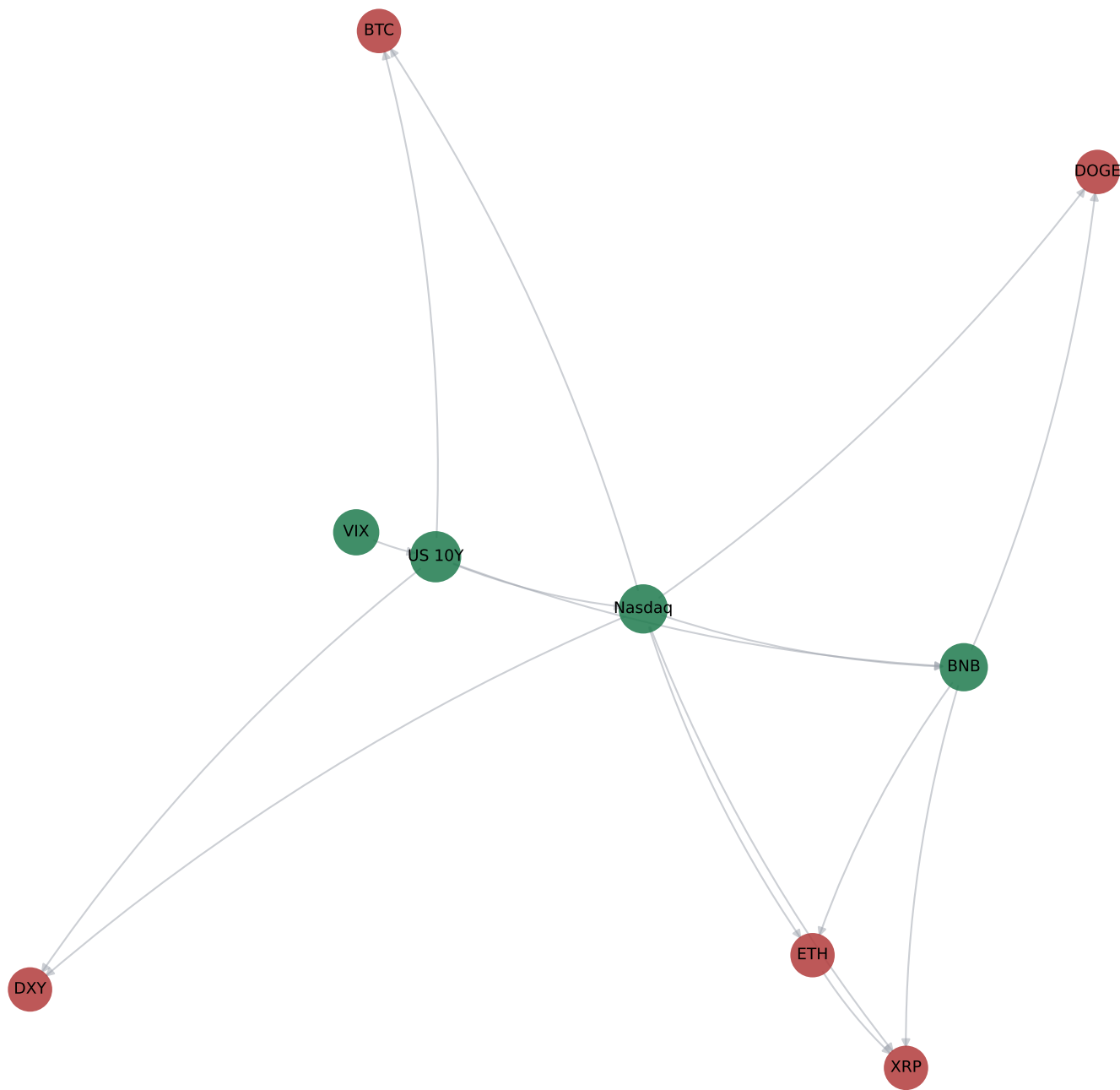


N=12 · persistence 0.8617 · now +0.33 · rising = diversification failing in real time

Latest conditional-correlation matrix



Directional lead-lag — Granger causality network

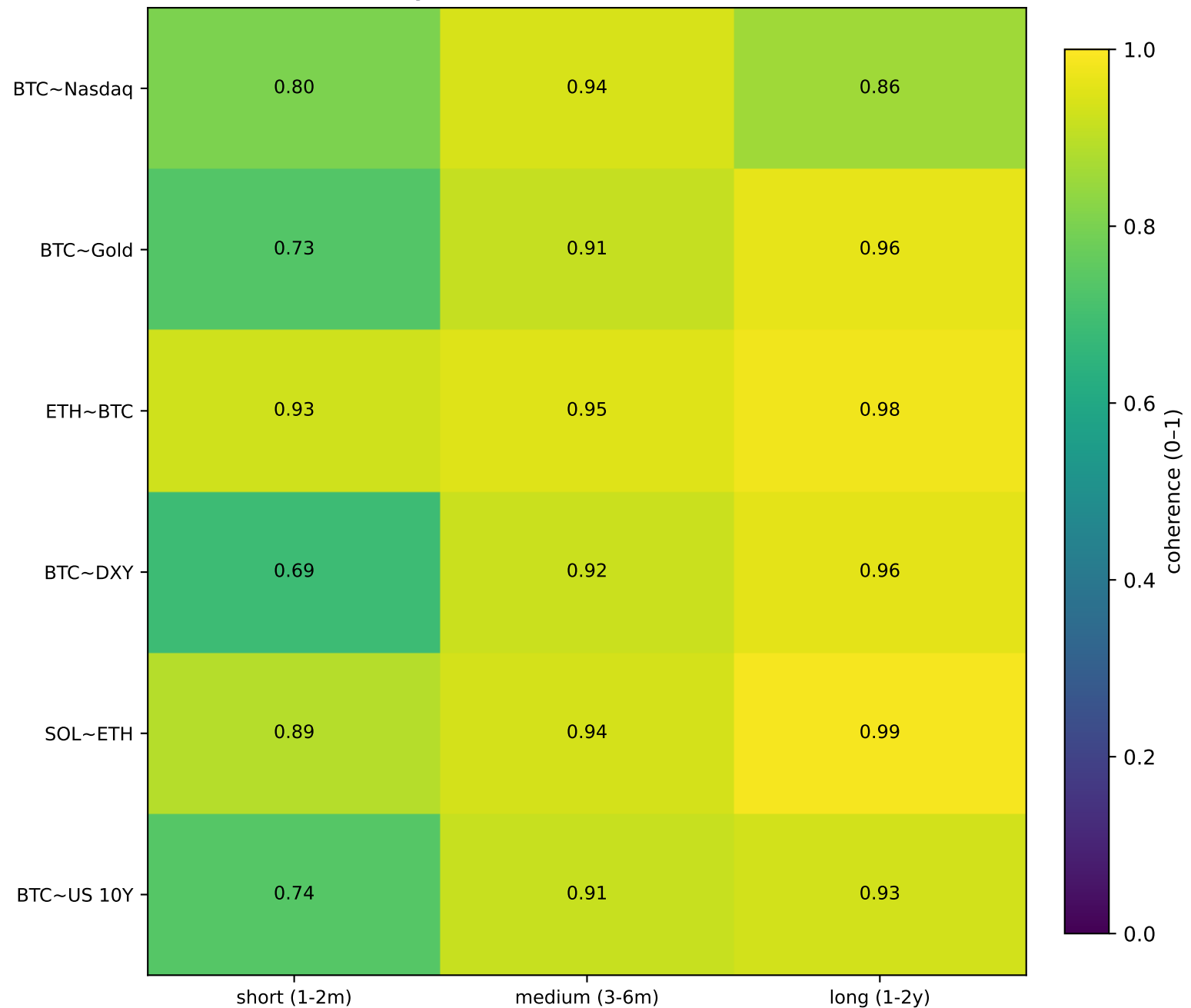


arrow = X Granger-causes Y (p<0.05); green/large = net information EXPORTER (leader)

LEADERS: US 10Y +0.03, Nasdaq +0.02, BNB +0.02, VIX +0.01, SOL +0.00

FOLLOWERS: XRP -0.02, DOGE -0.02, BTC -0.02, DXY -0.01, ETH -0.00

Wavelet coherence by time-scale — short-term or structural?



STATISTICAL RELATIVE VALUE (cointegration)

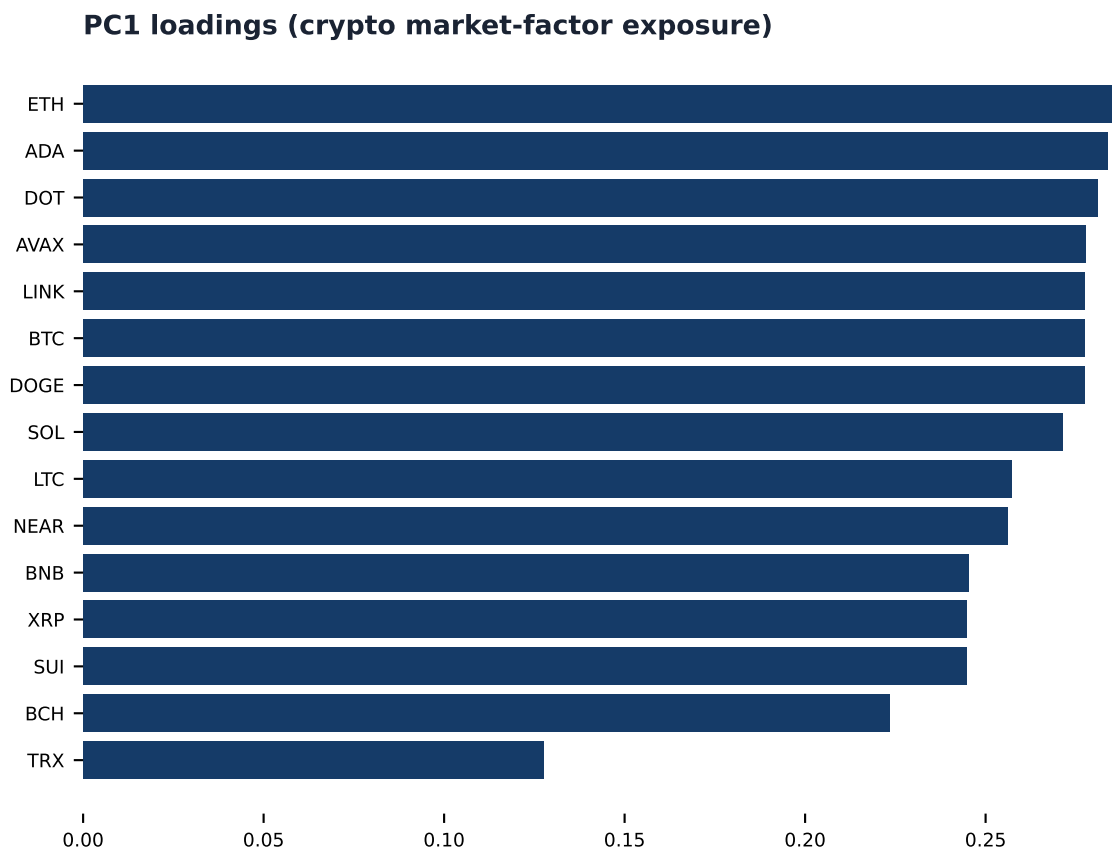
Mean-reverting crypto spreads and how stretched each is now

Pair	Coint?	p-val	Hedge	Half-life	Spread z
BTC vs Nasdaq	no	0.827	0.41	26w	+2.15
DOGE vs BTC	no	0.872	0.87	53w	+1.83
SOL vs AVAX	no	0.735	0.38	56w	-1.38
ADA vs XRP	no	0.925	0.37	136w	+1.16
BTC vs Gold	no	0.592	0.47	34w	+1.11
ETH vs BTC (ratio)	no	0.793	1.21	48w	+0.92
UNI vs AAVE	no	0.552	0.73	23w	+0.51
ATOM vs DOT	no	0.297	0.97	14w	-0.51
BTC vs ETH	yes	0.027	0.45	14w	-0.41
LTC vs BCH	no	0.783	0.72	55w	+0.38
ETH vs SOL	no	0.233	2.05	16w	+0.29
LINK vs ETH	yes	0.008	0.70	10w	+0.11

Low p-value = the spread is statistically mean-reverting. Half-life = weeks to close half a dislocation. $|z| > 2$ (red) flags a historically wide gap. Pairs shown NOT cointegrated: the long-run link has broken — the z is informational only.

Risk Concentration & Lead-Lag

PCA on majors' daily returns: PC1 explains 64% of variance. High PC1 = the market is one big BTC-beta trade (little diversification v



DOES BTC LEAD THE ALTS? (BTC change -> alt next-day change; modest weekly skill)

Alt	Contemp. corr	BTC 1-day lead
ETH	+0.84	-0.02
SOL	+0.74	-0.02
XRP	+0.65	-0.02
DOGE	+0.72	-0.03



PART III

Momentum, Fair Value & Risk

Trend, what is rich or cheap versus its drivers, volatility and downside risk.

- Momentum & trend battery, factor-beta attribution, fair-value residuals
- Realised volatility and tail risk (VaR / expected shortfall, tail dependence)

MOMENTUM & TREND

Time-series momentum, trend state and distance below the 52-week high

Instrument	13w	26w	52w	Score	vs40wMA	<52wHi
BTC	+33%	+17%	-25%	+0.50	+16%	-23%
ETH	+50%	+20%	-30%	+0.50	+22%	-31%
SOL	+53%	+41%	-37%	+0.50	+30%	-38%
BNB	+37%	+30%	-29%	+0.50	+18%	-29%
XRP	+35%	+10%	-37%	+0.50	+9%	-41%
DOGE	+28%	+1%	-51%	+0.50	+1%	-52%
ADA	+58%	+4%	-58%	+0.50	+10%	-60%
AVAX	+61%	+15%	-48%	+0.50	+24%	-46%
LINK	+73%	+52%	-20%	+0.50	+40%	-23%
LTC	+57%	+27%	-28%	+0.50	+28%	-31%
DOT	+36%	-9%	-60%	+0.00	-2%	-63%
NEAR	+166%	+269%	+112%	+1.00	+161%	0%

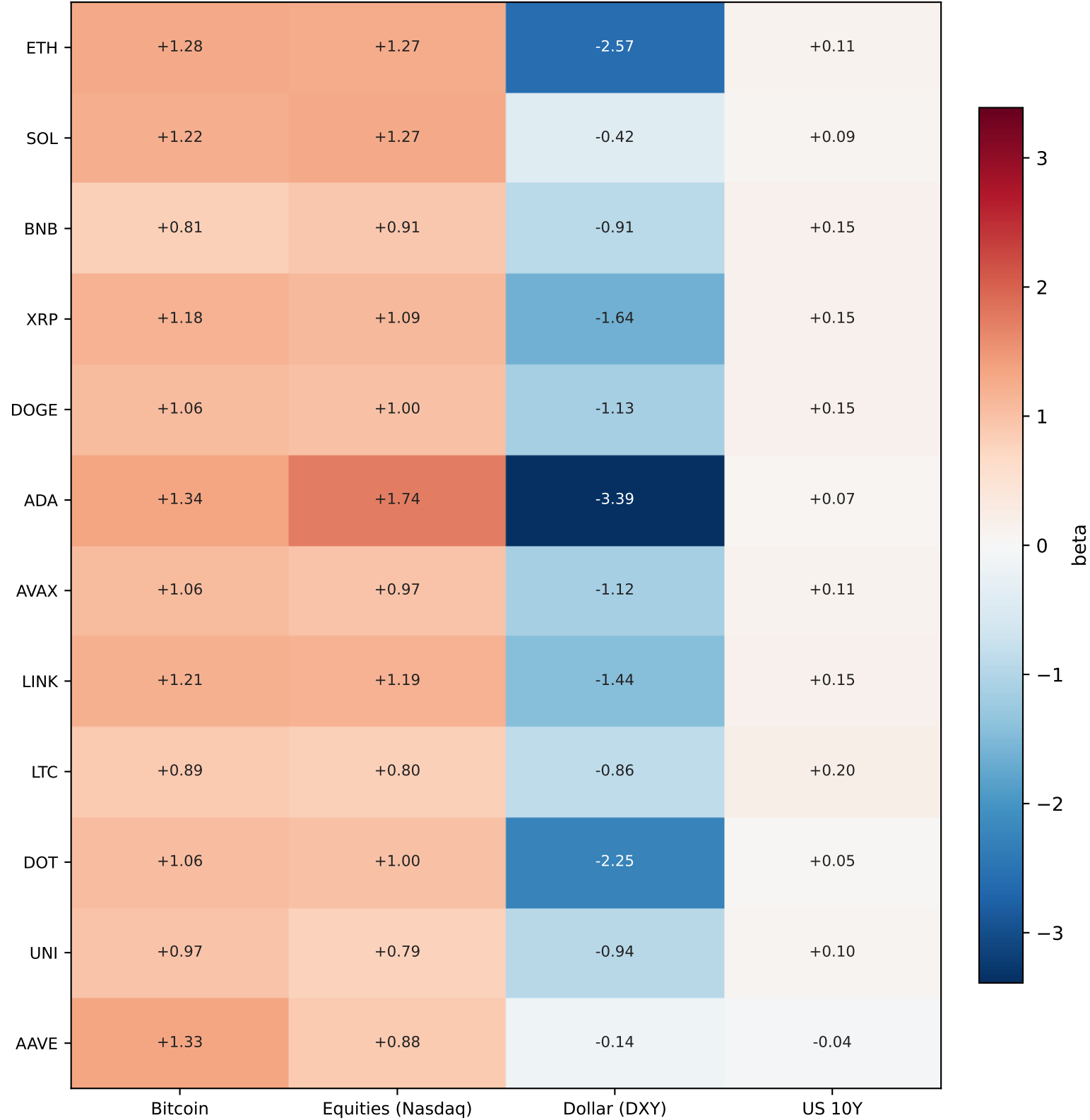
Altcoin 26-week relative strength:

LEADERS: UNI +181%, INJ +146%, AAVE +95%, ARB +74%, XLM +37%, ICP +36%

LAGGARDS: APT -6%, RNDR -1%, ATOM -1%, ETC +4%, HBAR +13%, OP +16%

Score = mean sign of the 4/13/26/52-week returns (+1 = uptrend across all horizons). 'Golden' vs 'death' = 10w vs 40w MA cross.

Factor betas — 52-week sensitivity to the master factors



FAIR VALUE — RICH / CHEAP vs DRIVERS

Each asset regressed on its economic drivers; the residual is the rich/cheap signal

Dogecoin vs BTC

cheap z -1.65

actual 0.09 · model-fair 0.16 · gap -41.7% · R^2 0.55



Bitcoin vs equities, dollar & rates

cheap z -1.33

actual 85210.76 · model-fair 123984.71 · gap -31.3% · R^2 0.76



Ether vs BTC & equities

RICH z +0.51

actual 2696.40 · model-fair 2416.47 · gap +11.6% · R^2 0.62



Solana vs ETH

RICH z +0.29

actual 119.30 · model-fair 104.50 · gap +14.2% · R^2 0.71



Chainlink vs ETH & BTC

cheap z -0.06

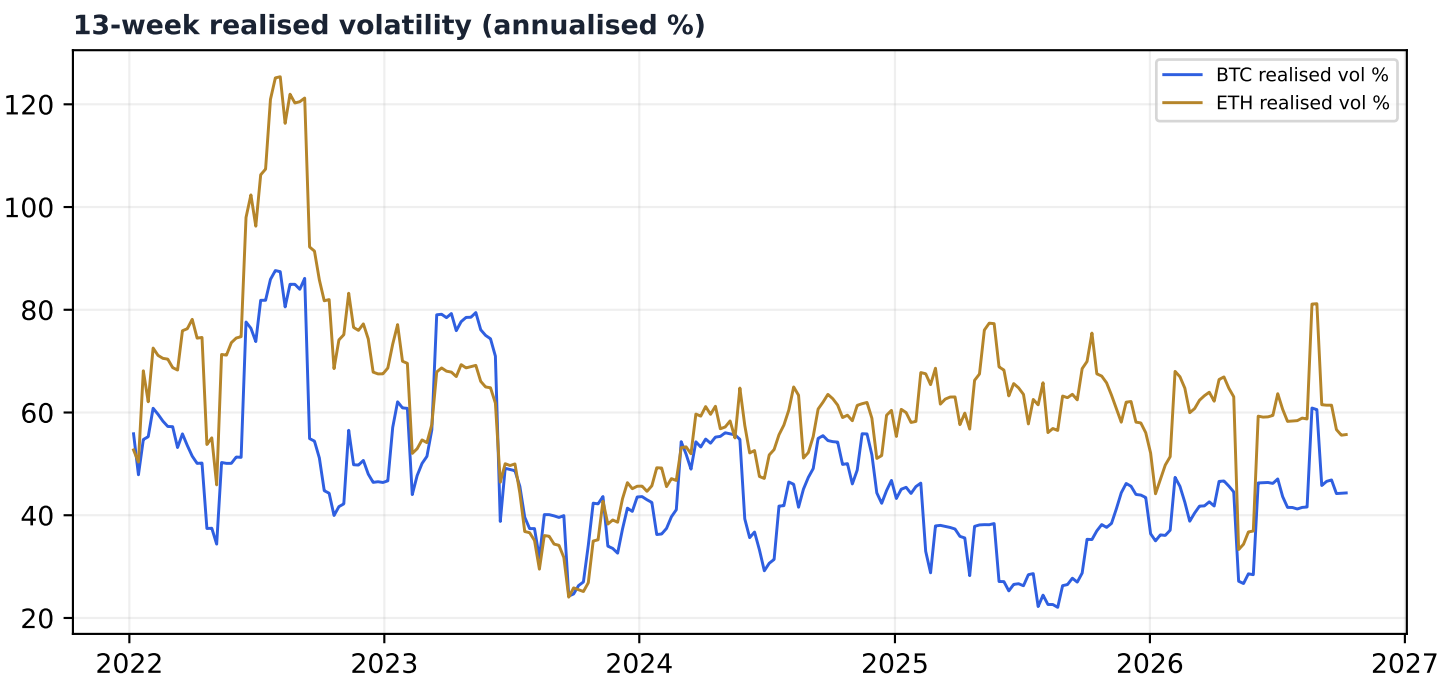
actual 13.80 · model-fair 13.99 · gap -1.3% · R^2 0.78



Model-fair value is what the drivers justify; the gap is how far actual sits from it. $|z| > 1.5$ flags a stretched dislocation. Trust in proportion to R^2 — a low- R^2 model is a weak anchor, stated honestly.

VOLATILITY

Realised volatility of the majors, the equity-VIX backdrop, and the BTC-equity risk linkage



REALISED VOLATILITY (annualised, 5-year percentile)

BTC	44%		49th
ETH	56%		30th
SOL	51%		4th

Equity VIX 15.6 (32th %ile 5y)

BTC-Nasdaq 13-week correlation -0.17 — decoupled from equities

Crypto has no free implied-vol series in the panel (Deribit DVOL is a separate feed); realised vol and its percentile show whether volatility is stretched. A high BTC-Nasdaq correlation means crypto is trading as a macro risk asset.

TAIL RISK

Downside: 5% VaR / expected shortfall, drawdowns and fat-tailedness (5-year weekly)

Instrument	VaR5	ES5	DnVol	MaxDD	CurDD	Skew	Kurt
BTC	-10.2%	-16.6%	37%	-74%	-30%	-0.2	+3.9
ETH	-14.3%	-22.8%	49%	-77%	-44%	-0.5	+2.1
SOL	-20.2%	-29.4%	68%	-96%	-53%	-0.6	+4.2
BNB	-11.6%	-19.1%	41%	-67%	-34%	-0.5	+2.5
XRP	-15.3%	-20.9%	43%	-74%	-56%	+1.2	+5.4
DOGE	-17.1%	-25.6%	53%	-84%	-78%	+0.9	+4.7
ADA	-16.4%	-24.3%	49%	-93%	-88%	+0.3	+1.8
AVAX	-19.8%	-31.8%	64%	-95%	-91%	-0.2	+1.8
LINK	-18.4%	-25.8%	54%	-84%	-60%	-0.0	+1.3
Gold	-3.6%	-4.7%	11%	-23%	-21%	-0.1	+1.3

Lower-tail dependence WITH BTC (P both crash together):

ETH 0.59 SOL 0.59 XRP 0.59 DOGE 0.52 Gold 0.19

VaR5 = the typical bad-week loss (5% quantile); ES5 = the average loss BEYOND it. Lower-tail dependence near 1 = crashes together; near 0 = a genuine diversifier when it matters.

Historical Trend - Key Metrics

Key readings from every weekly report, most recent on the right. Cells are colour-coded green (favourable / risk-on), amber (neutral) and red (adverse / risk-off) so the multi-month trend is readable at a glance.

R+ risk-on / favourable N neutral R- risk-off / adverse

	05-08	05-15	05-22	05-29	06-05	06-12	06-19	06-26	07-03	07-10	07-13	07-20	07-27	08-03	08-06	08-10	08-17	08-24	08-31	09-07	09-14	09-21	09-28	10-05
Regime	R+	R+	R+	R+	R-	R+	R+	N	R+	R+	R+	N	N	N	N	N	R+	R+	R+	R+	R+	R+	R+	R+
Risk appetite															-0.14	-0.11	-0.05	+0.37	+0.37	+0.39	+0.38	+0.78	+0.65	+0.66
Macro backdrop															+0.18	+0.26	+0.26	+0.23	+0.25	+0.31	+0.17	+0.31	+0.02	-0.07
BTC.D %	-	-	-	-	-	-	-	-	-	-	56	56	56	56	57	57	56	59	59	59	59	59	58	59
Alt-breadth %	21	57	71	57	36	21	36	21	7	43	50	50	36	29	36	29	43	57	29	64	36	57	93	71
PC1 share															48	48	48	48	48	48	48	48	48	48
BTC DVOL	-	-	-	-	-	-	-	-	-	-	38	36	37	36	35	35	34	45	37	39	38	38	36	36
Fear&Greed	-	-	-	-	-	-	-	-	-	-	28	29	30	28	25	30	31	73	62	71	57	70	74	70
BTC 1w %	+2.6	-1.4	-4.5	-2.8	-17.0	+4.3	-0.0	-5.5	+4.2	+2.5	-2.2	+3.2	+0.1	-2.0	-0.4	+2.4	+0.1	+22.7	+1.9	+0.3	-0.7	+9.8	-3.8	+2.0

Each column is one weekly report - read left (older) to right (latest) for the trend over the past months.