

STATE OF THE MARKET

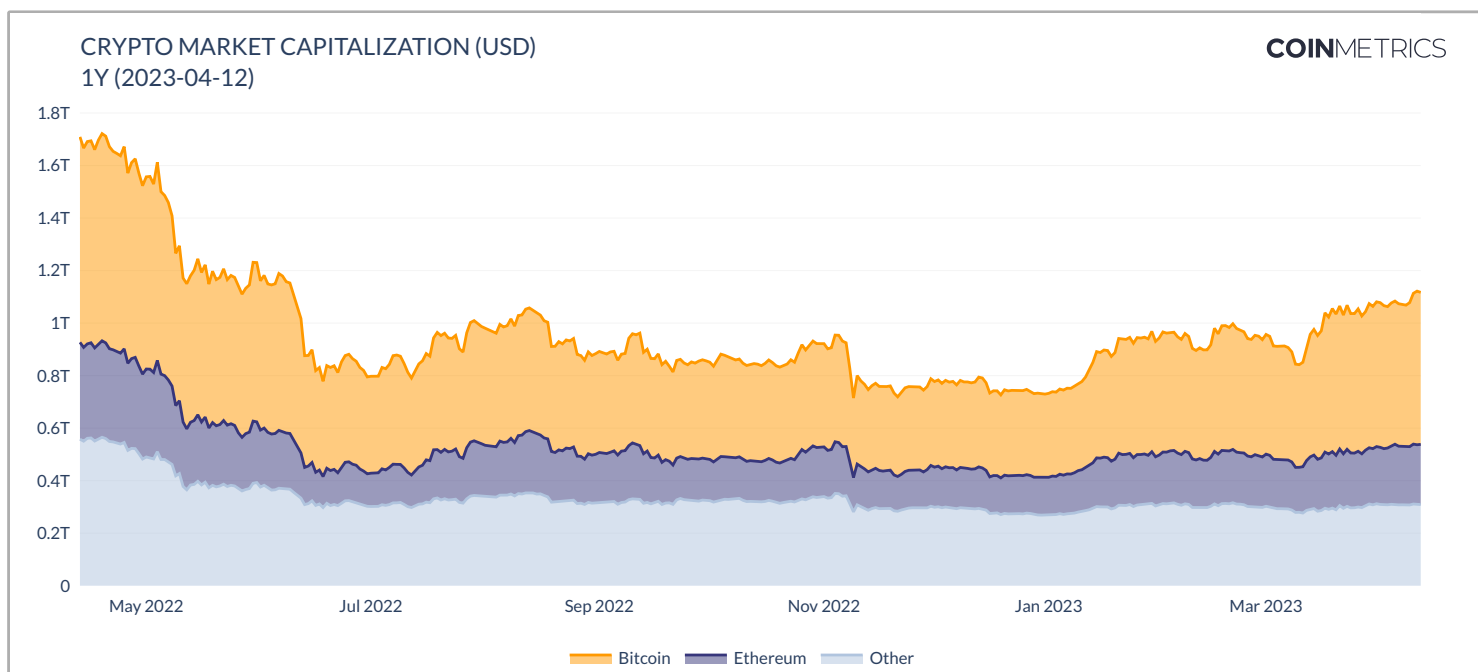
APR. 6 - 12, 2023

Coin Metrics' State of the Market provides an overview of cryptoasset market activity

CM

MARKET SUMMARY

Seven months post-Merge, Ethereum notches another fork in its chain. The "Shapella" upgrade (combining 'Shanghai' for Execution & 'Capella' for Consensus) is now officially activated, allowing proof-of-stake validators to withdraw their funds from the Beacon Chain. As ETH devs celebrate an important step forward for PoS, proof-of-work critics are stoking discontent. On Sunday, The New York Times published a scathing expose on the 'real world costs' of Bitcoin, drilling deep into energy consumption patterns of 34 mining operations. The story claims America's largest mining farms each use 30,000x the amount of energy as the average U.S. household, yielding "higher electricity bills and enormous carbon pollution." In response, top miner Riot Platforms (RIOT) derided NYT's scientific rigor, mocking environmental critiques with a parody video of a researcher measuring (non-existent) mining rig emissions. On Wednesday, crypto got a brief boost from easing inflation figures, with the Consumer Price Index (CPI) rising just 0.1% versus expectations of 0.3%. Later that day, the release of March's Fed minutes indicated many members of the central bank's board were apprehensive to hike rates during last month's banking crisis, with 4 of 12 regional banks urging caution. Cooling price changes (along with dovish undertones from the Fed) were a momentary shot in the arm for digital currencies, with BTC nearly tipping \$30,500 before retreating to pre-CPI release levels. Having recaptured \$30K, BTC's latest boom has helped vindicate Microstrategy (MSTR), the software shop-turned-bitcoin investment vehicle chaired by Michael Saylor. The firm's \$4.17 billion in BTC holdings are now back in-profit, and TradFi is taking notice, with Bank of America & Fidelity each snagging substantial stakes in MSTR stock during Q1 2023. Ex-PayPal, Ex-Libra/Diem lead David Marcus is also betting big on Bitcoin, unveiling the Lightning-powered 'Lightspark' platform on Tuesday. The payments suite includes tooling for node management, smart routing, and APIs/SDKs that will "help accelerate the adoption and usage" of the Lightning Network. SushiSwap users got a raw deal, losing \$3M after the decentralized exchange's liquidity-aggregator contract was exploited. Sushi's head chef Jared Grey (currently under investigation by the SEC) urged users to "revoke approval ASAP," though he later noted a "large portion of affected funds" were recovered by white hat hackers. Meanwhile, the hype around artificial intelligence is bleeding ever-further into the world of digital assets. Ethereum Layer-2 CryptoGPT (unaffiliated with OpenAI's ChatGPT) made waves after announcing their "dedicated blockchain for AI development" had raised \$10M at a \$250M valuation. Though the line separating hype from innovation is blurrier by the minute, digital assets remain on the forefront, piercing the cutting edge of an interconnected world.



PRICE (CMBI CONSTITUENTS)

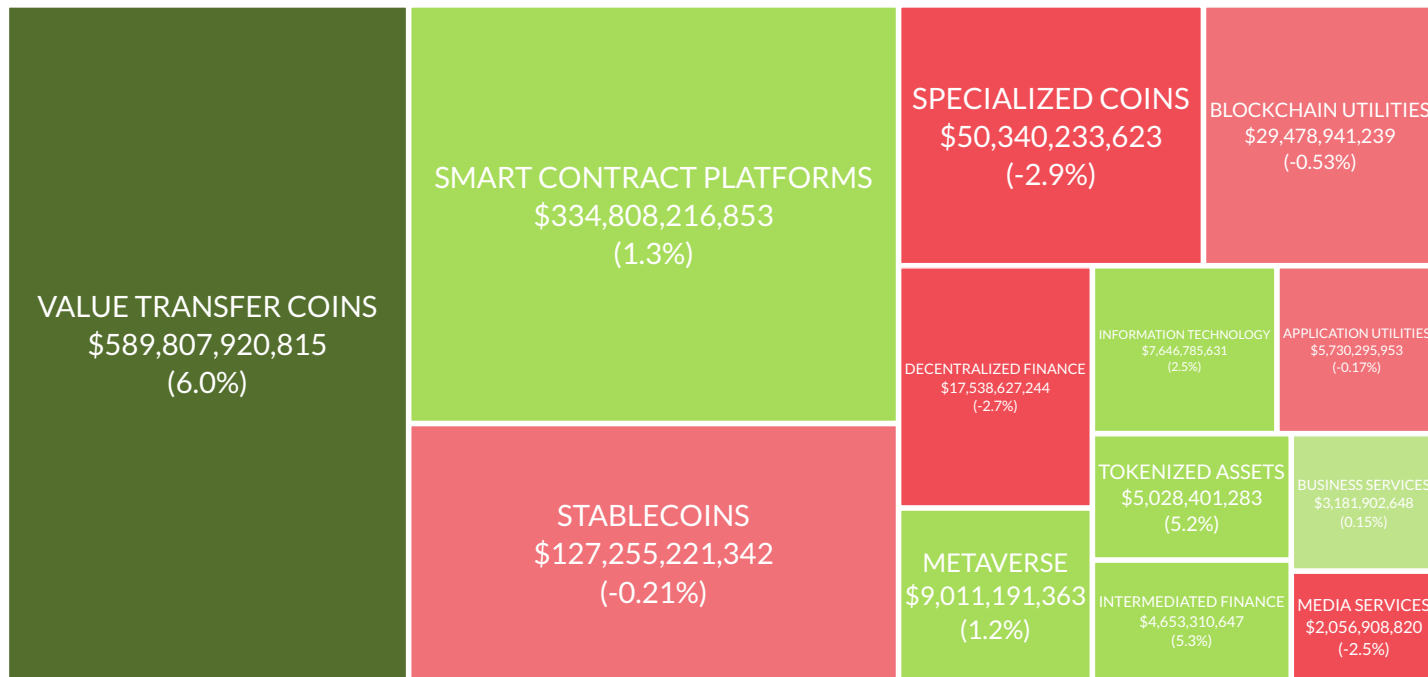
Coin Metrics' Reference Rate price calculated using a transparent, independent methodology robust to manipulation and derived from high quality constituent markets. Data based on 4pm EST NYC close.

ASSET	CLOSING PRICE	7D CHANGE	7D MAX	7D MIN	52W CHANGE	52W MAX	52W MIN
BTC	\$29,874.90	+6.57%	\$30,279.55	\$27,915.86	-24.88%	\$41,454.85	\$15,799.60
ETH	\$1,902.29	+1.60%	\$1,903.05	\$1,854.90	-36.46%	\$3,111.34	\$923.00
SOL	\$23.95	+15.64%	\$23.95	\$20.18	-75.96%	\$106.79	\$8.35
DOT	\$6.35	+0.22%	\$6.45	\$6.13	-63.89%	\$18.91	\$4.27
ADA	\$0.40	+4.97%	\$0.40	\$0.38	-56.53%	\$0.95	\$0.24
DOGE	\$0.08	-9.33%	\$0.09	\$0.08	-41.55%	\$0.16	\$0.05
MATIC	\$1.09	-2.41%	\$1.12	\$1.09	-19.52%	\$1.52	\$0.34
BNB	\$318.84	+1.92%	\$325.76	\$310.92	-22.94%	\$420.05	\$189.63
AVAX	\$17.96	-0.84%	\$18.30	\$17.52	-76.62%	\$79.64	\$10.78
ATOM	\$11.21	-1.66%	\$11.39	\$10.95	-53.18%	\$24.49	\$5.73
CMBI10	\$3,213.58	+4.42%	\$3,245.13	\$3,053.62	-36.07%	\$5,250.14	\$1,838.40

ASSET CLASSES

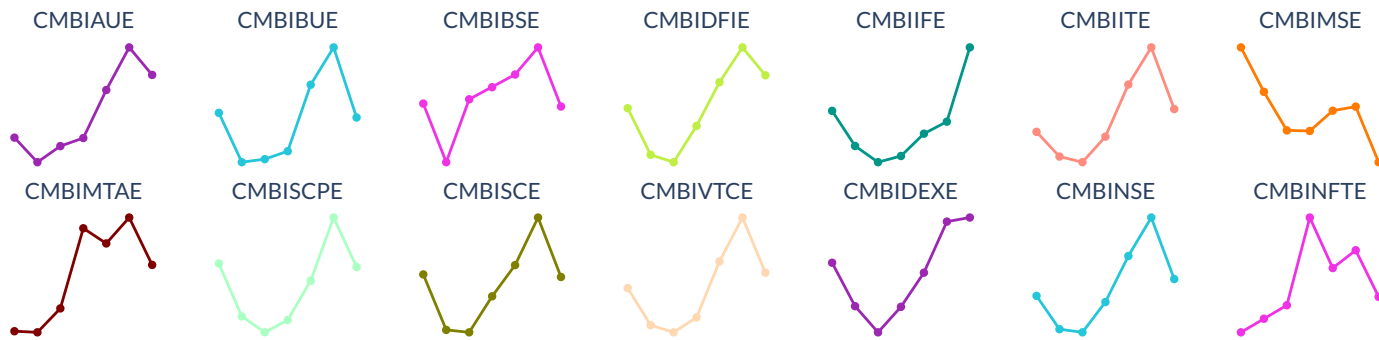
DIGITAL ASSET SECTOR 7D MARKETCAP (2023-04-12)

COINMETRICS



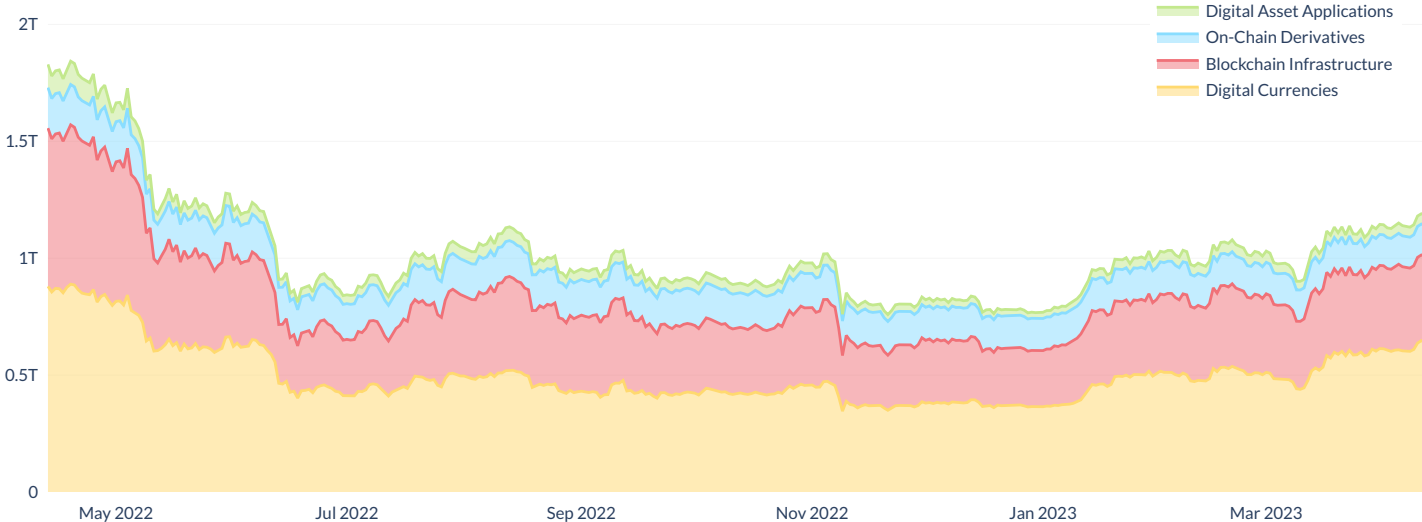
TRENDING SECTOR INDEXES, 7 DAY TREND

COINMETRICS



CRYPTO MARKET CAPITALIZATION (USD)
BY DATONOMY CLASS

COINMETRICS

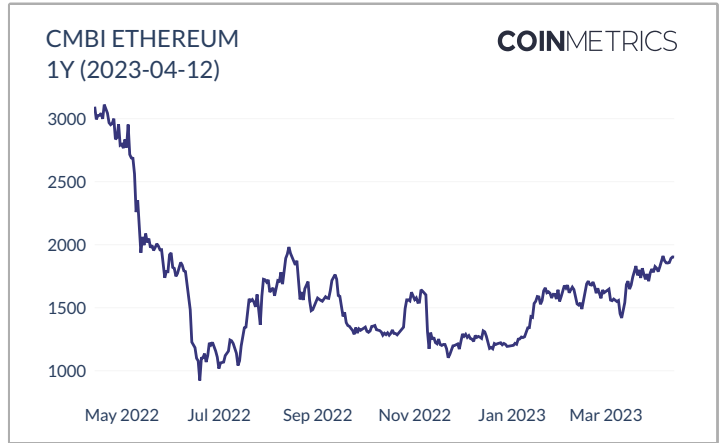


INDEX ROUNDUP

SINGLE ASSET INDEXES

The CMBI Single Asset series are institutionally designed cryptoasset benchmarks that accurately & reliably represent a real-time market aggregate USD value for singular crypto assets.

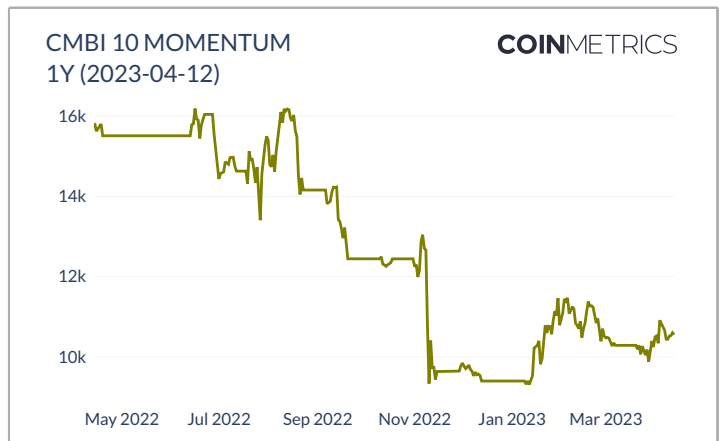
INDEX	CLOSING PRICE	7D CHANGE	7D MAX	7D MIN	52W CHANGE	52W MAX	52W MIN
CMBIBTC	\$29,874.90	+6.57%	\$30,279.55	\$27,915.86	-24.88%	\$41,454.85	\$15,799.60
CMBIBTCT	\$32,097.25	+6.57%	\$32,531.99	\$29,992.48	-24.88%	\$44,538.61	\$16,974.91
CMBIETH	\$1,902.29	+1.60%	\$1,903.05	\$1,854.89	-36.46%	\$3,111.34	\$923.00
CMBIETHHT	\$2,065.11	+1.60%	\$2,065.94	\$2,013.66	-36.46%	\$3,377.65	\$1,002.00



MULTI ASSET INDEXES

The CMBI Multi Asset series are institutionally designed cryptoasset benchmarks that accurately & reliably represent a real-time market aggregate USD value for baskets of crypto assets.

INDEX	CLOSING PRICE	7D CHANGE	7D MAX	7D MIN	52W CHANGE	52W MAX	52W MIN
CMBI10	\$3,213.58	+4.42%	\$3,245.13	\$3,053.62	-36.07%	\$5,250.14	\$1,838.40
CMBI10E	\$5,422.30	+1.73%	\$5,475.73	\$5,192.75	-56.59%	\$13,102.79	\$3,409.70
CMBI10EX	\$7,195.30	+1.51%	\$7,227.98	\$6,989.96	-47.61%	\$14,375.80	\$4,169.19
CMBI10M	\$10,553.65	-1.03%	\$10,663.80	\$10,437.79	-32.46%	\$16,189.37	\$9,310.27
CMBIBE	\$15,357.32	+4.84%	\$15,497.35	\$14,564.11	-29.20%	\$22,584.15	\$8,387.96

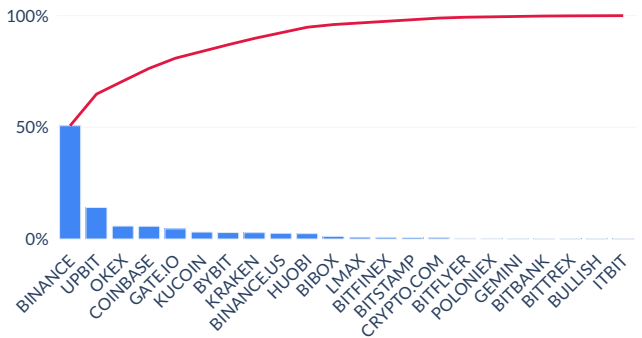


MARKET MOVEMENT

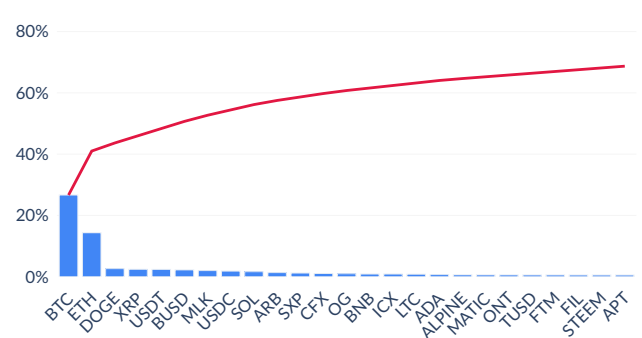
TRADING DIARY, 7 DAY

ADVANCING VOLUME	\$119,274,697,117
DECLINING VOLUME	\$10,415,460,766
ADVANCES	482
DECLINES	154

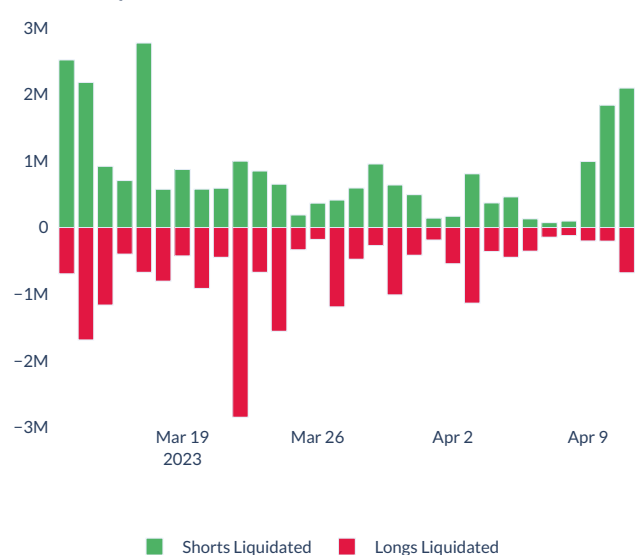
EXCHANGE SPOT SHARE, 7 DAY MEAN



BASE ASSET SPOT SHARE, 7 DAY MEAN

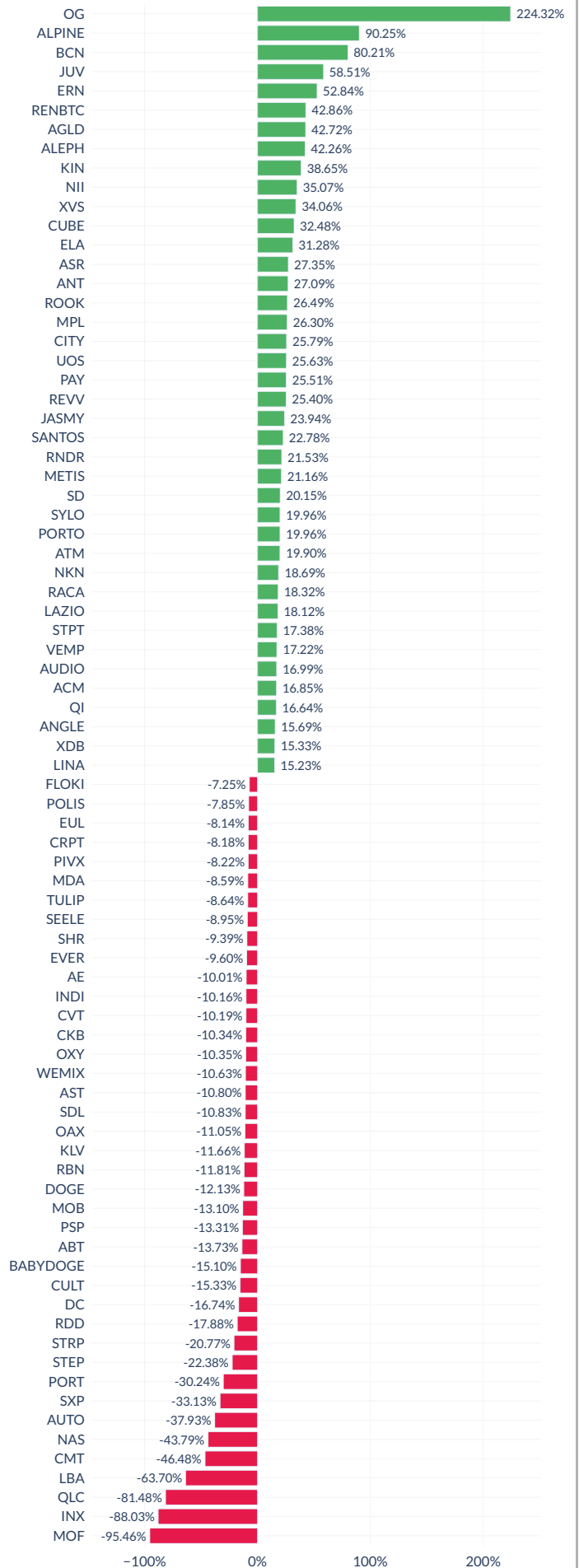


BTC PERPETUALS, TOTAL LIQUIDATIONS



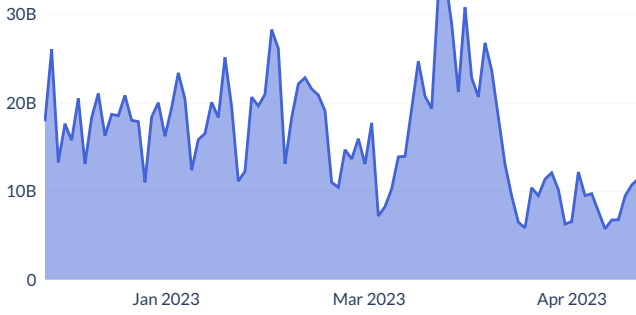
PRICE CHANGE, 7 DAY

COINMETRICS

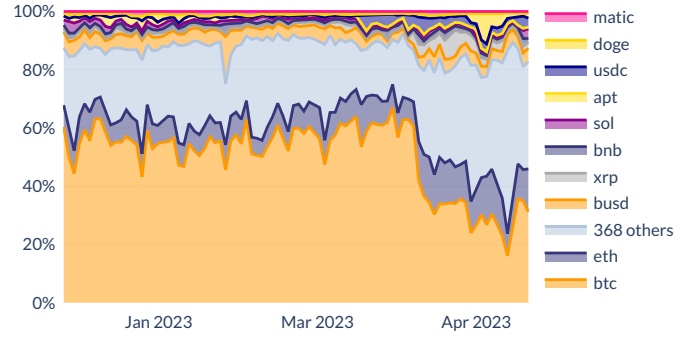


EXCHANGE SPOT VOLUME

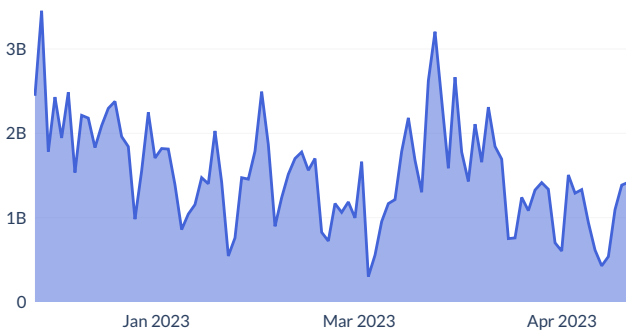
BINANCE DAILY USD SPOT VOLUME 3M (2023-04-12) COINMETRICS



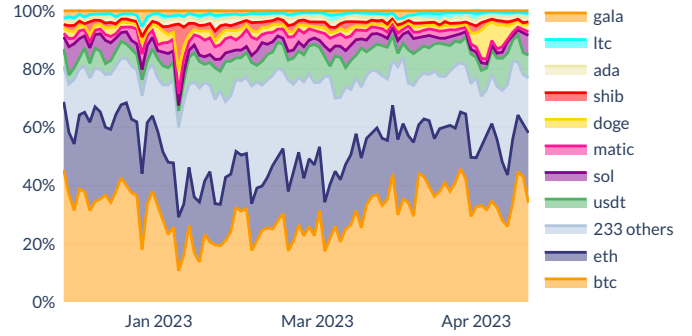
BINANCE SPOT VOLUME, % BY ASSET 3M (2023-04-12) COINMETRICS



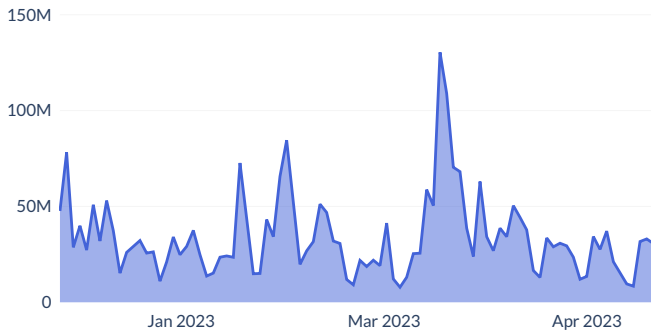
COINBASE DAILY USD SPOT VOLUME 3M (2023-04-12) COINMETRICS



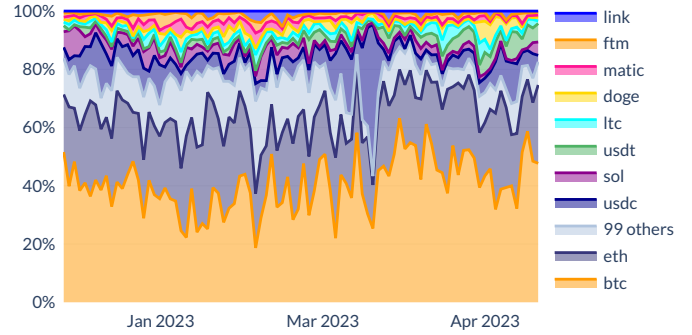
COINBASE SPOT VOLUME, % BY ASSET 3M (2023-04-12) COINMETRICS



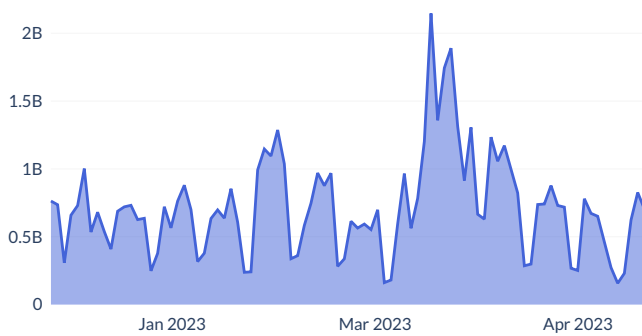
GEMINI DAILY USD SPOT VOLUME 3M (2023-04-12) COINMETRICS



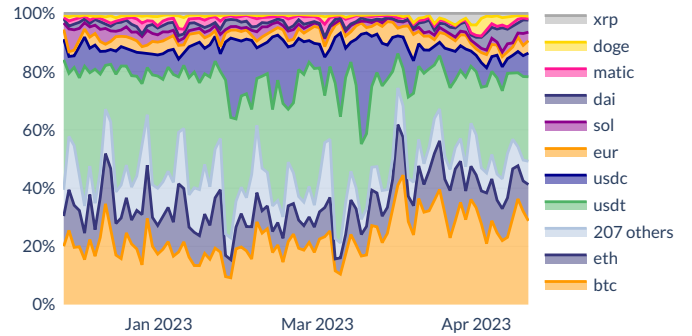
GEMINI SPOT VOLUME, % BY ASSET 3M (2023-04-12) COINMETRICS



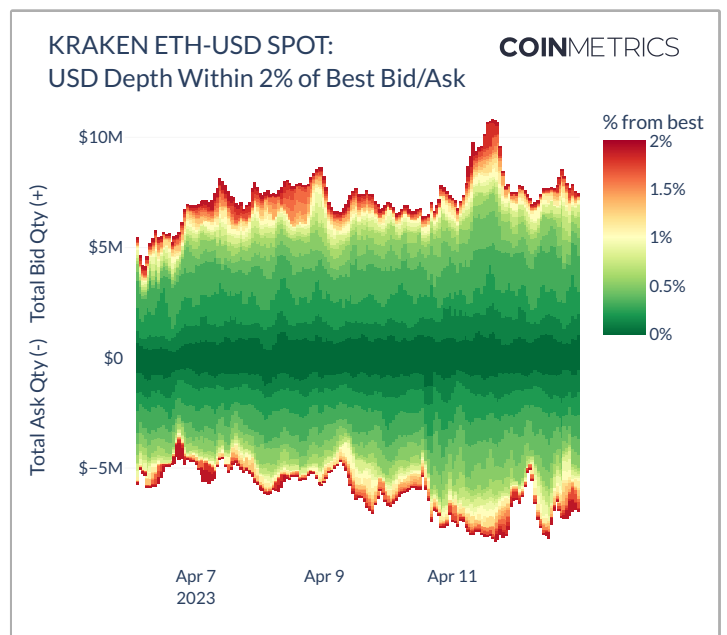
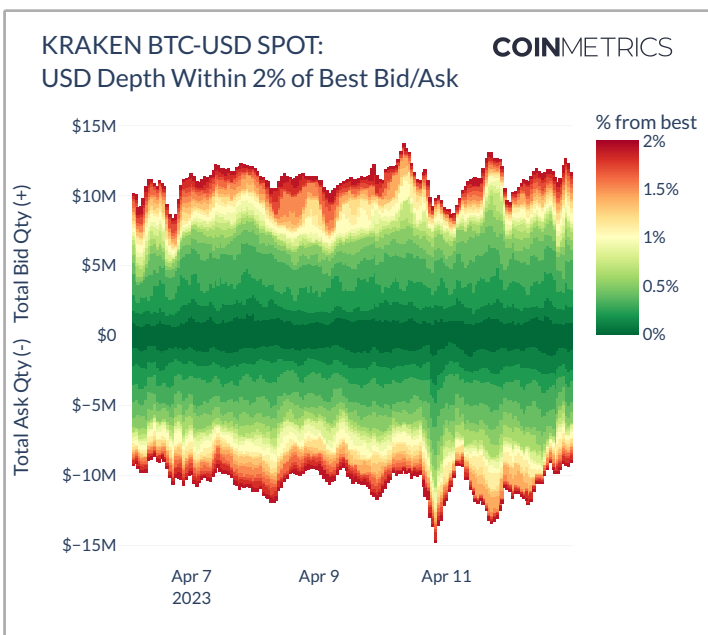
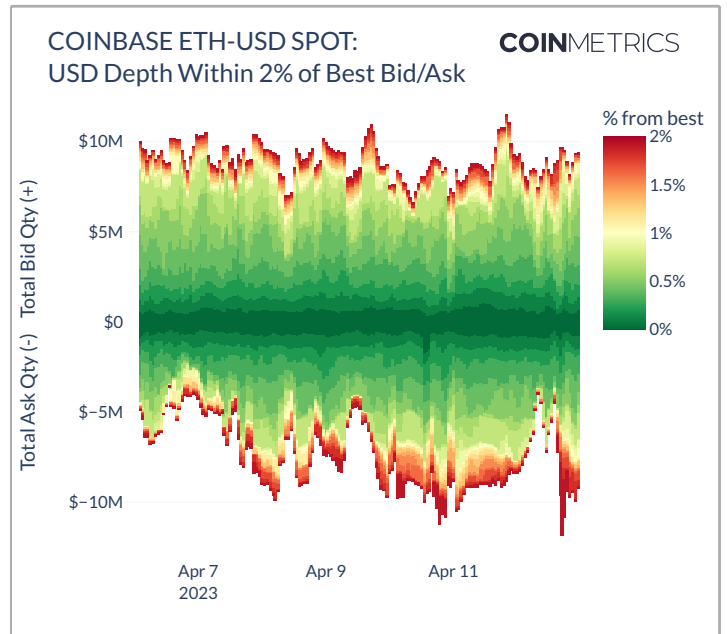
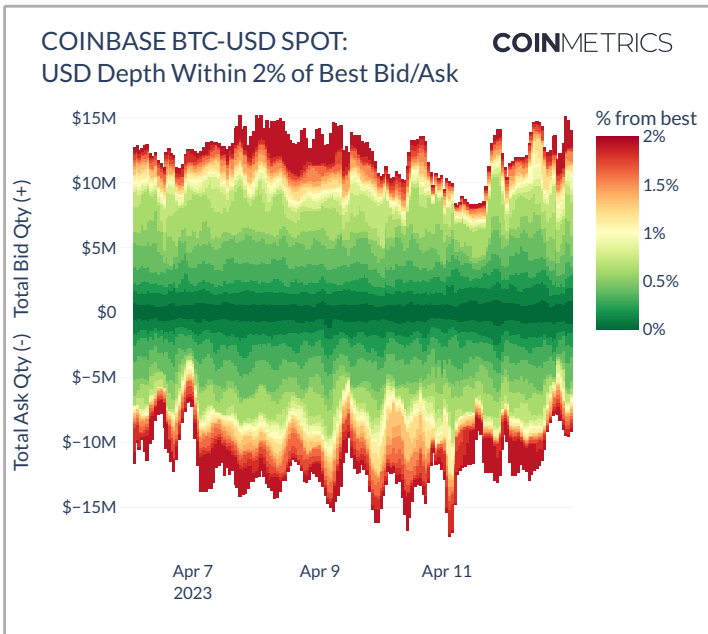
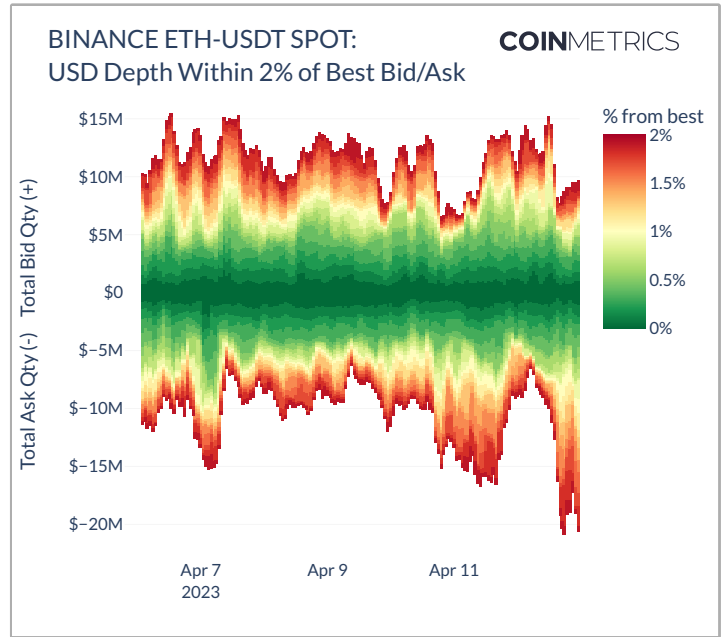
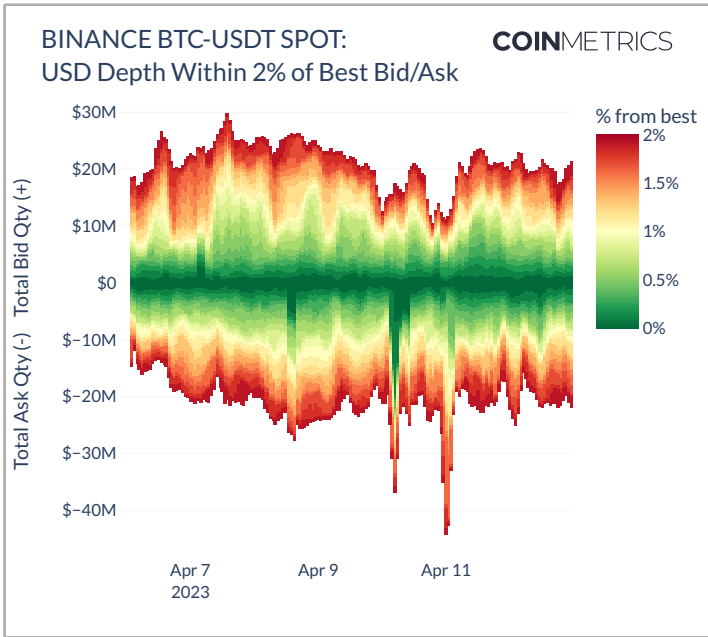
KRAKEN DAILY USD SPOT VOLUME 3M (2023-04-12) COINMETRICS



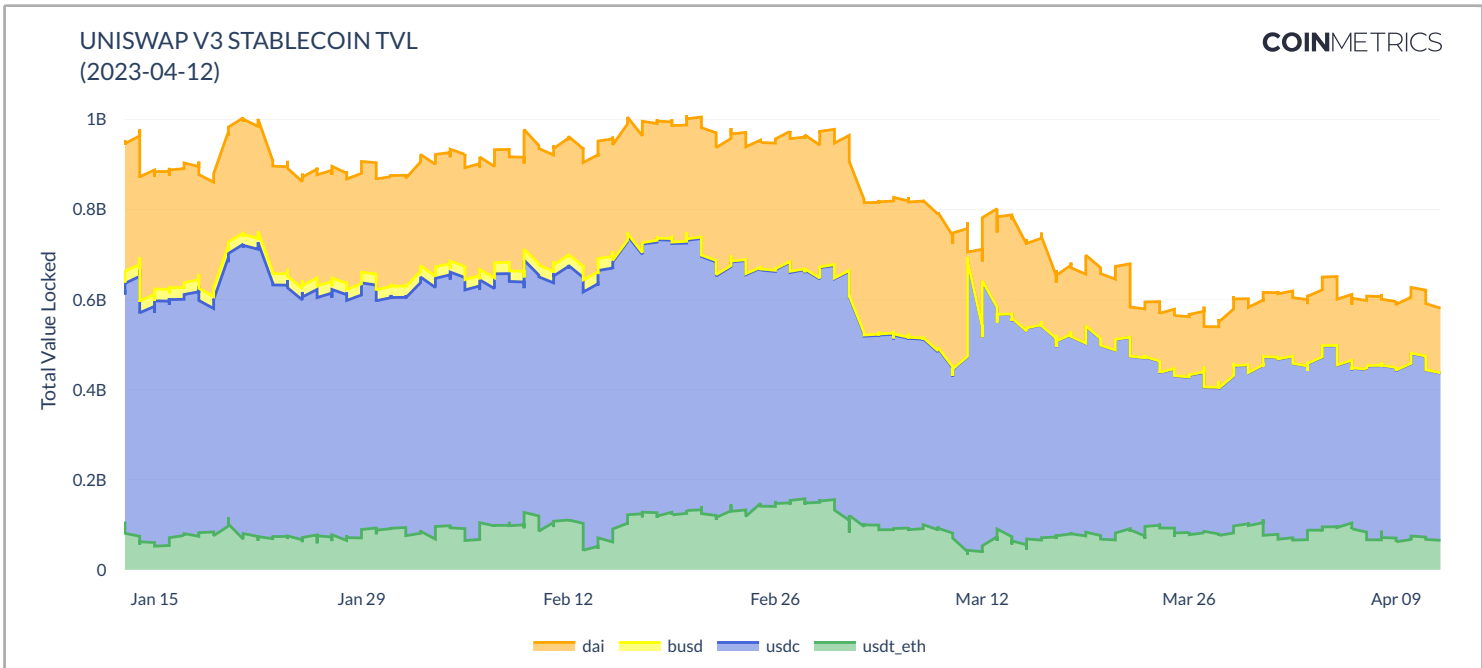
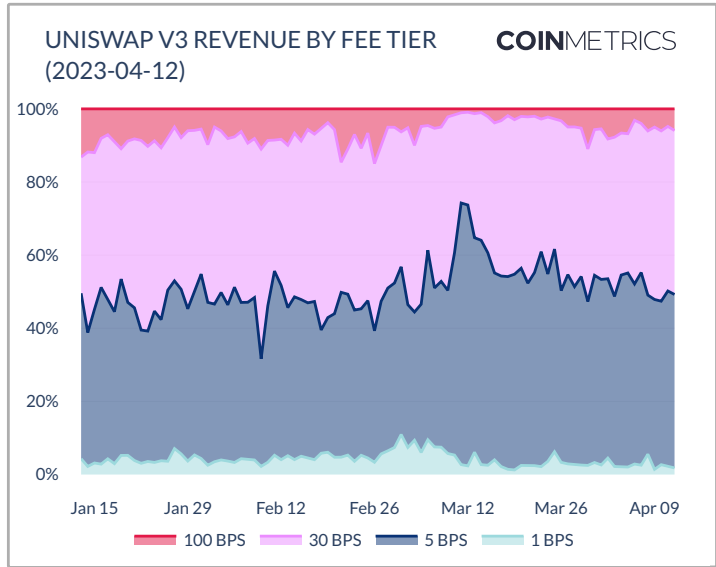
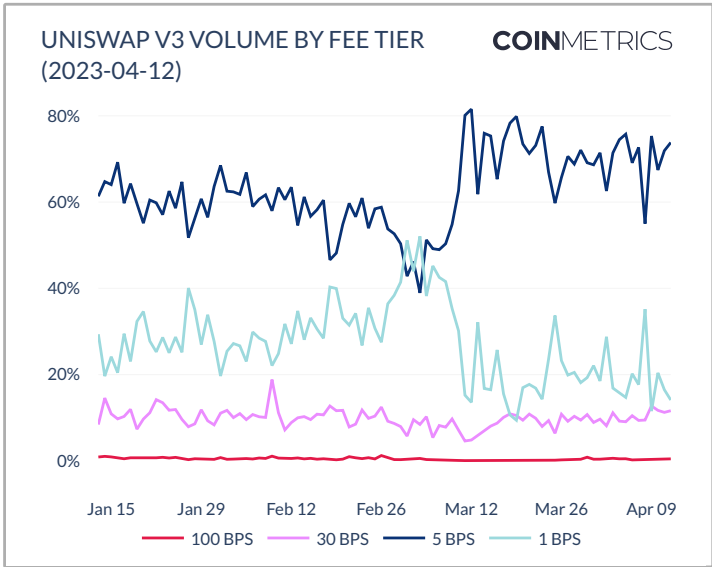
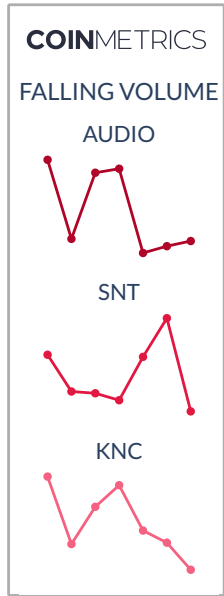
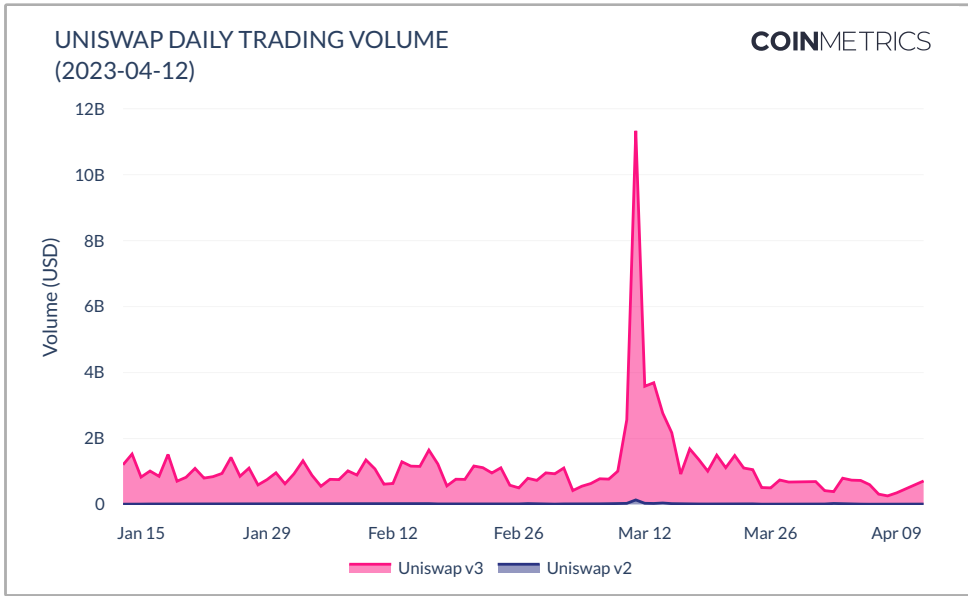
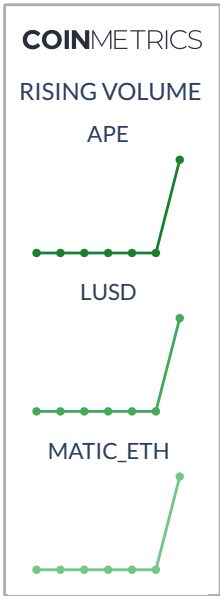
KRAKEN SPOT VOLUME, % BY ASSET 3M (2023-04-12) COINMETRICS



ORDER BOOK DEPTH

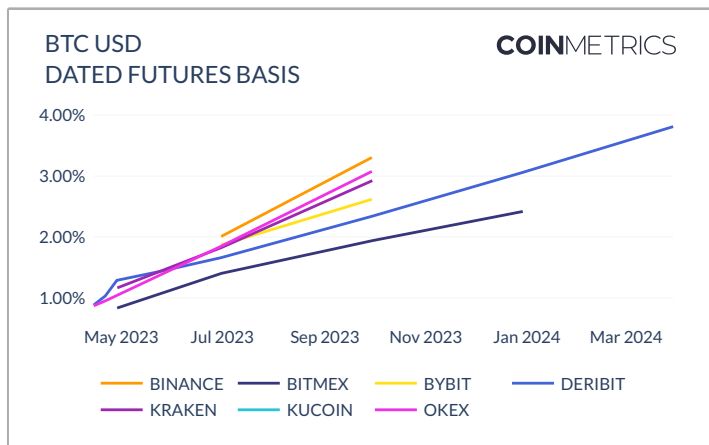
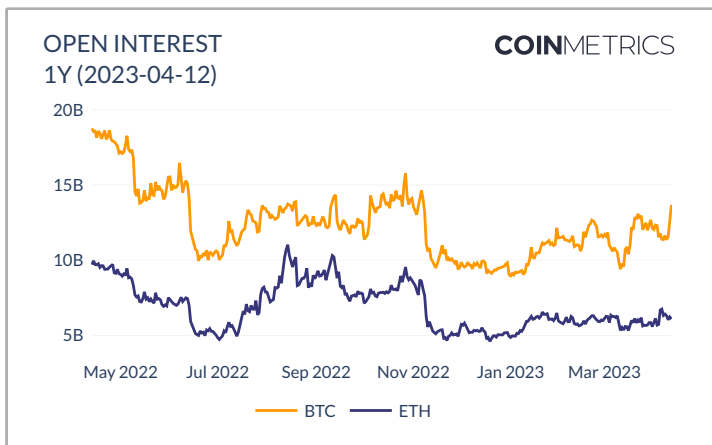


DEX DIGEST



Note: DEX metrics currently capture a subset of the top liquidity pools on the Ethereum-based instantiation of each protocol.

FUTURES FEED



OPEN INTEREST

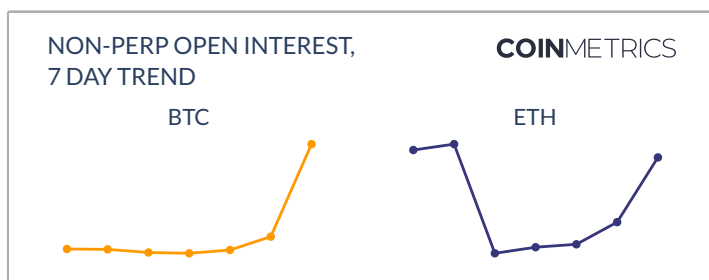
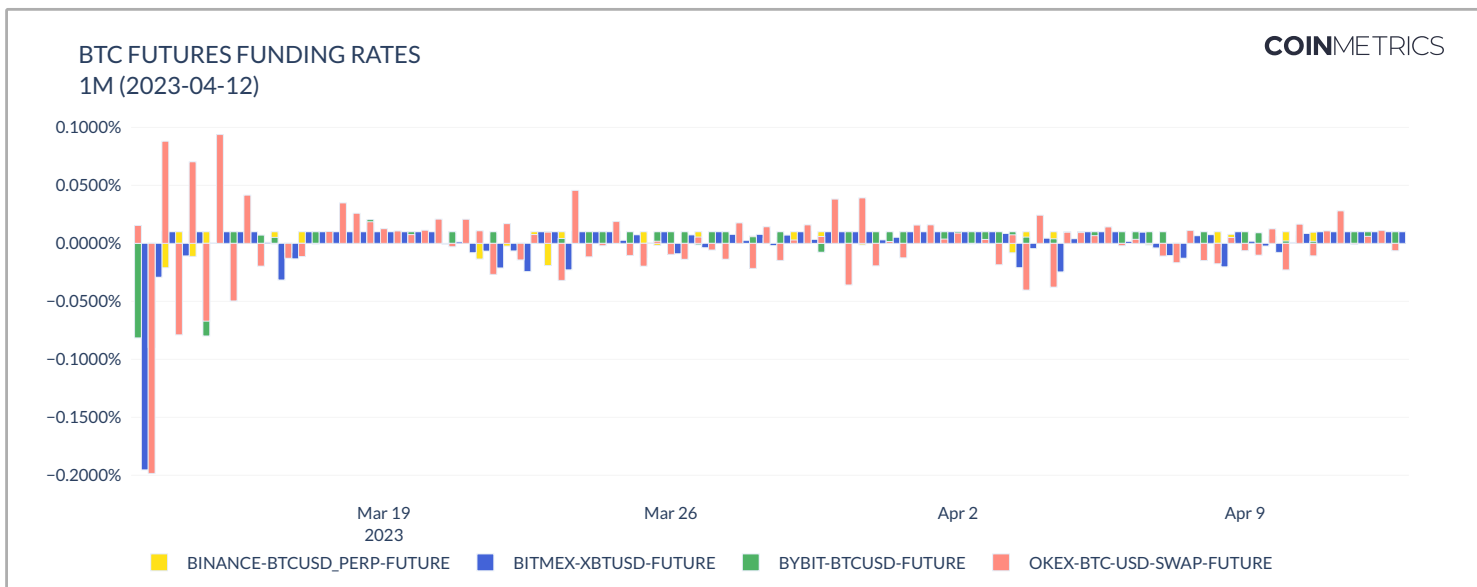
Sum of all reported open interest from futures markets in USD

ASSET	7D CHANGE	7D AVERAGE	7D MAX	7D MIN
BTC	+20.01%	12,020,694,237	13,676,383,345	11,367,237,900
ETH	-9.78%	6,312,659,651	6,754,012,782	6,044,464,822
XRP	-0.85%	580,284,230	590,381,759	571,347,403
ADA	+11.72%	216,782,964	238,533,457	204,826,262
LINK	+1.49%	114,780,297	116,510,121	112,904,293
CRO	+6.25%	20,297,703	21,265,724	19,776,986
LTC	+9.18%	404,788,124	444,568,163	390,170,593
UNI	+0.40%	47,328,598	49,114,122	45,373,267
BCH	+3.88%	158,415,195	164,372,829	155,369,748

FUTURES VOLUME

USD value of all reported futures volume

ASSET	7D CHANGE	7D AVERAGE	7D MAX	7D MIN
BTC	+69.70%	26,222,169,284	43,007,246,944	9,727,143,014
ETH	+67.18%	14,632,308,450	25,975,435,841	7,265,575,963
XRP	-4.89%	1,074,024,735	1,482,564,696	639,241,693
ADA	+58.53%	351,166,907	540,357,674	216,624,171
LINK	+28.92%	215,815,327	315,144,784	147,574,268
CRO	-19.59%	1,126,314	1,622,935	713,936
LTC	+71.80%	629,837,891	1,048,874,653	270,220,239
UNI	+49.68%	70,971,053	105,516,055	54,819,037
BCH	+67.66%	80,083,830	125,351,795	39,918,466



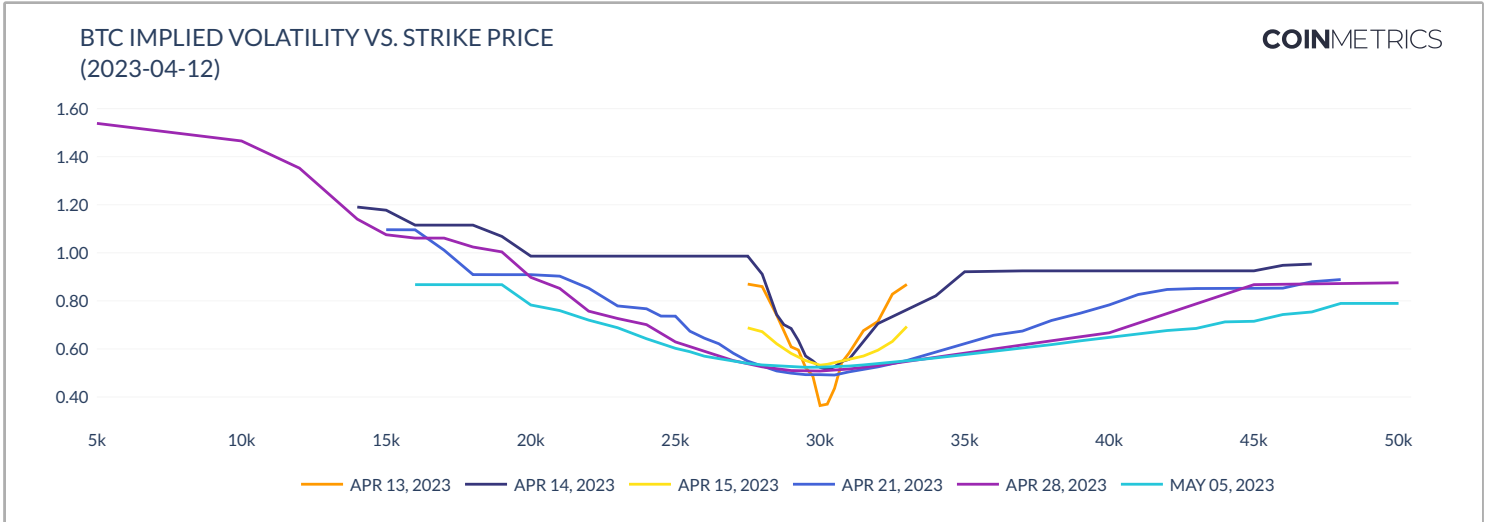
OPTIONS SNAPSHOT

BTC OPEN INTEREST

TOTAL	\$10,125,744,130
CALLS	\$6,686,675,857
PUTS	\$3,439,068,273

ETH OPEN INTEREST

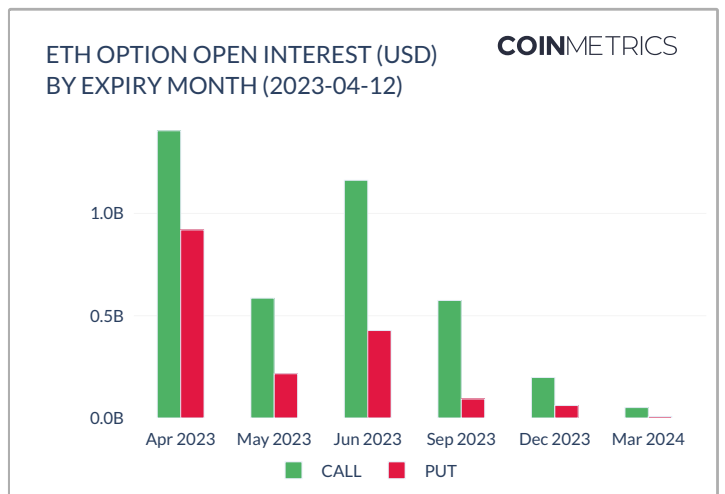
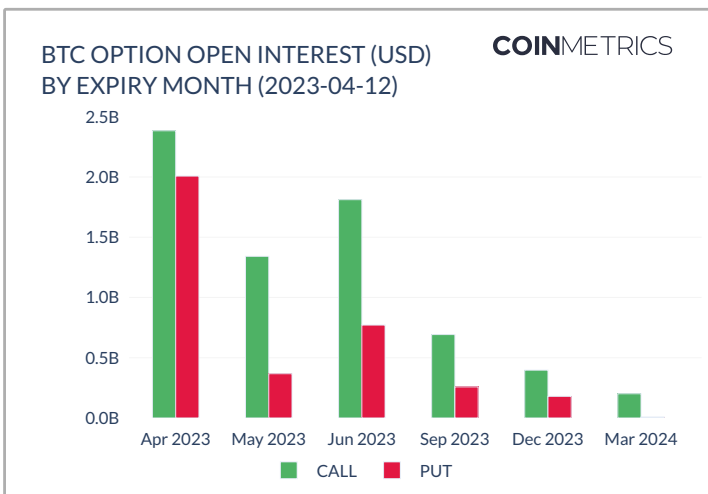
TOTAL	\$4,947,062,945
CALLS	\$3,431,730,742
PUTS	\$1,515,332,203



AT THE MONEY OPTIONS

Market greeks, implied volatility, and mark contract prices for BTC options at or near strike price.

CALLS							PUTS							
VEGA	THETA	RHO	DELTA	GAMMA	IV	MARK	SYMBOL	MARK	IV	GAMMA	DELTA	RHO	THETA	VEGA
6.90592	-125.6296	1.05361	0.73884	0.00023	0.5555	0.0225	BTC-13APR23-29250	0.0007	0.5555	0.00023	-0.26116	-0.40277	-125.6296	6.90592
7.59415	-104.45586	1.1307	0.71375	0.00028	0.4859	0.0148	BTC-13APR23-29500	0.0014	0.4858	0.00028	-0.28625	-0.48518	-104.45586	7.59415
8.35525	-114.92455	1.01706	0.63947	0.0003	0.4604	0.0084	BTC-13APR23-29750	0.0034	0.4602	0.0003	-0.36053	-0.61251	-114.92455	8.35525
8.80541	-121.11641	0.89288	0.55946	0.00032	0.4386	0.0038	BTC-13APR23-30000	0.0071	0.4386	0.00032	-0.44054	-0.75038	-121.11641	8.80541
7.1234	-129.09932	1.03844	0.72332	0.00024	0.5508	0.0268	BTC-14APR23-29250	0.005	0.5508	0.00024	-0.27668	-0.42962	-129.09932	7.1234
25.19713	-31.49741	5.34157	0.34895	0.0001	0.5356	0.0207	BTC-14APR23-29500	0.0072	0.5357	0.0001	-0.65105	-12.43869	-31.49741	25.19713
8.26006	-147.64862	0.85826	0.59289	0.00028	0.5248	0.0153	BTC-14APR23-29750	0.0102	0.5248	0.00028	-0.40711	-0.6349	-147.64862	8.26006
23.82339	-29.78018	4.67594	0.3041	0.00009	0.5196	0.011	BTC-14APR23-30000	0.0143	0.5196	0.00009	-0.69588	-13.40536	-29.78124	23.82424
28.13682	-35.17213	7.271	0.46206	0.0001	0.4986	0.0378	BTC-21APR23-29500	0.023	0.4986	0.0001	-0.53802	-10.51051	-35.17066	28.13564
27.58929	-34.4877	6.53355	0.41299	0.0001	0.4997	0.0292	BTC-21APR23-30000	0.0311	0.4997	0.0001	-0.58701	-11.54807	-34.4877	27.58929



MARKET CAPITALIZATION

MARKET CAPITALIZATION, 7 DAY TREND



COINMETRICS

MARKET CAP

USD value of current supply. Also referred to as market capitalization.

ASSET	7D CHANGE	7D AVERAGE	7D MAX	7D MIN
BTC	+6.68%	558,577,944,972	585,084,494,472	540,295,858,609
ETH	+2.66%	224,589,999,309	229,301,377,515	220,930,787,967
XRP	+0.40%	50,993,111,608	51,855,830,942	50,342,716,937
ADA	+5.68%	13,355,267,442	13,792,687,881	13,051,663,222
LINK	+0.62%	7,249,320,592	7,352,002,236	7,147,512,623
CRO	-1.41%	6,846,746,060	6,909,038,916	6,802,897,387
LTC	+1.50%	6,671,957,378	6,847,134,130	6,543,250,289
UNI	-2.16%	5,979,859,174	6,081,746,554	5,922,522,672
BCH	+2.26%	2,452,326,519	2,500,260,963	2,397,068,297
FTT	+86.74%	472,407,250	780,983,384	410,555,282

FREE FLOAT MARKET CAP

The sum USD value of the free float supply.

ASSET	7D CHANGE	7D AVERAGE	7D MAX	7D MIN
BTC	+6.61%	398,998,478,292	417,820,957,848	386,047,914,252
ETH	+2.61%	205,653,809,016	209,908,997,804	202,321,851,731
XRP	+0.40%	23,127,191,359	23,517,822,055	22,832,314,056
ADA	+6.07%	11,776,798,112	12,188,086,965	11,490,836,694
LINK	+0.61%	3,692,135,672	3,744,306,822	3,640,385,073
CRO	-1.42%	875,039,485	883,018,779	869,444,097
LTC	+1.47%	5,854,493,893	6,007,755,387	5,741,848,863
UNI	-2.10%	1,383,629,869	1,406,941,124	1,370,111,274
BCH	+2.26%	1,649,894,003	1,682,080,756	1,612,654,952
FTT	+87.04%	455,615,228	753,372,981	396,040,764

REALIZED CAP

USD value for all native units based on the USD closing price on the day that a unit last moved.

ASSET	7D CHANGE	7D AVERAGE	7D MAX	7D MIN
BTC	+0.34%	383,162,749,403	384,033,835,933	382,675,240,415
ETH	+0.59%	163,570,501,336	164,260,319,866	163,127,582,109
XRP	-0.03%	49,564,871,276	49,620,291,250	49,534,256,352
ADA	-0.41%	17,931,678,771	17,975,377,998	17,874,408,681
LINK	-0.24%	8,346,266,331	8,357,977,681	8,329,667,690
CRO	+0.01%	22,637,657,778	22,638,472,980	22,637,141,229
LTC	+0.25%	6,853,531,187	6,868,247,684	6,844,273,442
UNI	-0.58%	9,621,656,642	9,646,660,634	9,591,190,522
BCH	-0.06%	4,502,620,074	4,504,738,970	4,501,311,329
FTT	+1.97%	917,122,478	933,685,303	913,608,888

MARKET VALUE TO REALIZED VALUE

The ratio of a cryptoasset's market cap (aka market value) to realized cap (aka realized value).

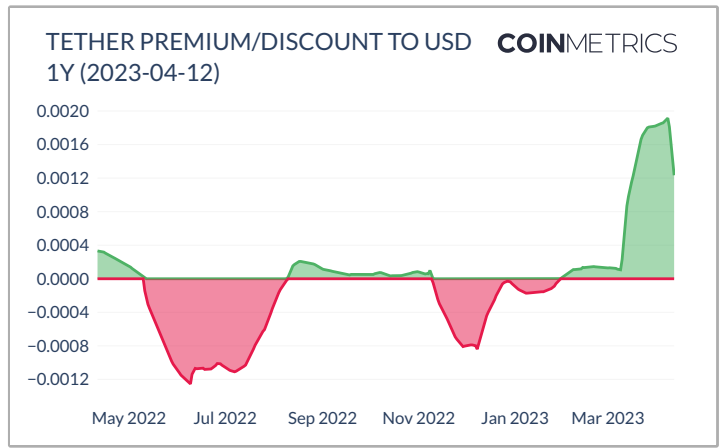
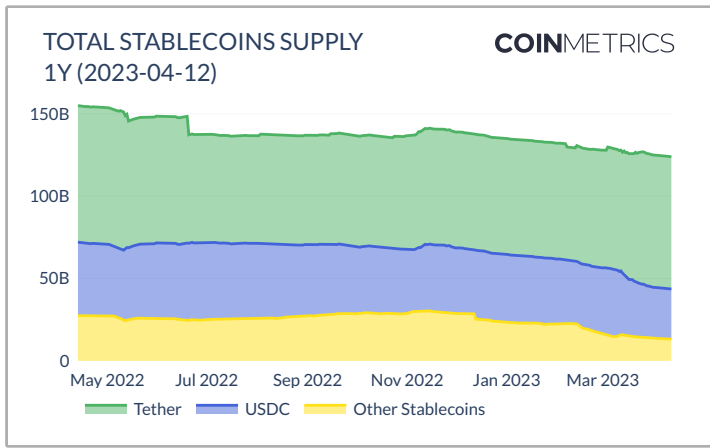
ASSET	7D CHANGE	7D AVERAGE	7D MAX	7D MIN
BTC	+6.32%	1.46	1.52	1.41
ETH	+2.06%	1.37	1.40	1.35
XRP	+0.43%	1.03	1.05	1.02
ADA	+6.12%	0.74	0.77	0.73
LINK	+0.86%	0.87	0.88	0.86
CRO	-1.42%	0.30	0.31	0.30
LTC	+1.25%	0.97	1.00	0.96
UNI	-1.60%	0.62	0.63	0.61
BCH	+2.32%	0.54	0.56	0.53
FTT	+83.14%	0.51	0.84	0.45

MARKET VALUE TO REALIZED VALUE 1Y (2023-04-12)

COINMETRICS



STABLECOINS REPORT



MARKET CAPITALIZATION

USD value of current supply

ASSET	7D CHANGE	7D AVERAGE	7D MAX	7D MIN
USDT_ETH	+0.00%	35,305,111,561	35,316,596,618	35,299,330,539
USDT	+0.00%	888,533,712	888,822,760	888,388,219
USDT_TRX	+0.00%	44,159,546,412	44,173,911,892	44,152,315,524
PAX	+16.25%	863,389,947	924,649,952	794,367,053
DAI	-1.25%	5,061,494,134	5,083,929,995	5,020,626,447
USDC	-1.66%	30,824,868,182	30,995,500,071	30,480,519,807
BUSD	-3.89%	6,990,353,914	7,071,535,893	6,796,416,945
GUSD	+3.29%	391,858,750	401,699,540	388,895,527

TRANSFER VALUE, ADJUSTED

USD value of the sum native units transferred removing noise

ASSET	7D CHANGE	7D AVERAGE	7D MAX	7D MIN
USDT_ETH	+11.20%	2,634,864,033	3,897,894,495	1,229,075,347
USDT	+36,702.46%	1,350,747	3,075,322	3,580
USDT_TRX	+48.12%	8,519,324,315	12,660,338,911	5,009,707,611
PAX	+33.15%	115,366,454	217,824,602	4,350,300
DAI	+91.59%	833,053,920	1,586,055,728	140,445,634
USDC	+166.80%	4,394,766,449	8,886,426,268	2,242,906,692
BUSD	+724.39%	269,470,395	1,047,442,064	6,223,793
GUSD	+2,214.44%	6,626,430	34,333,064	79,847



TRANSACTION COUNT

Count of transactions

ASSET	7D CHANGE	7D AVERAGE	7D MAX	7D MIN
USDT_ETH	+5.16%	102,373	121,247	77,411
USDT	+290.91%	30	43	11
USDT_TRX	+11.88%	2,084,409	2,353,939	1,808,431
PAX	+256.25%	183	399	57
DAI	+55.92%	4,135	6,349	3,004
USDC	+1.15%	39,329	45,144	30,228
BUSD	+2.67%	852	1,043	647
GUSD	+30.77%	84	108	48

MEDIAN TRANSFER VALUE

Median USD value transferred per transfer between addresses

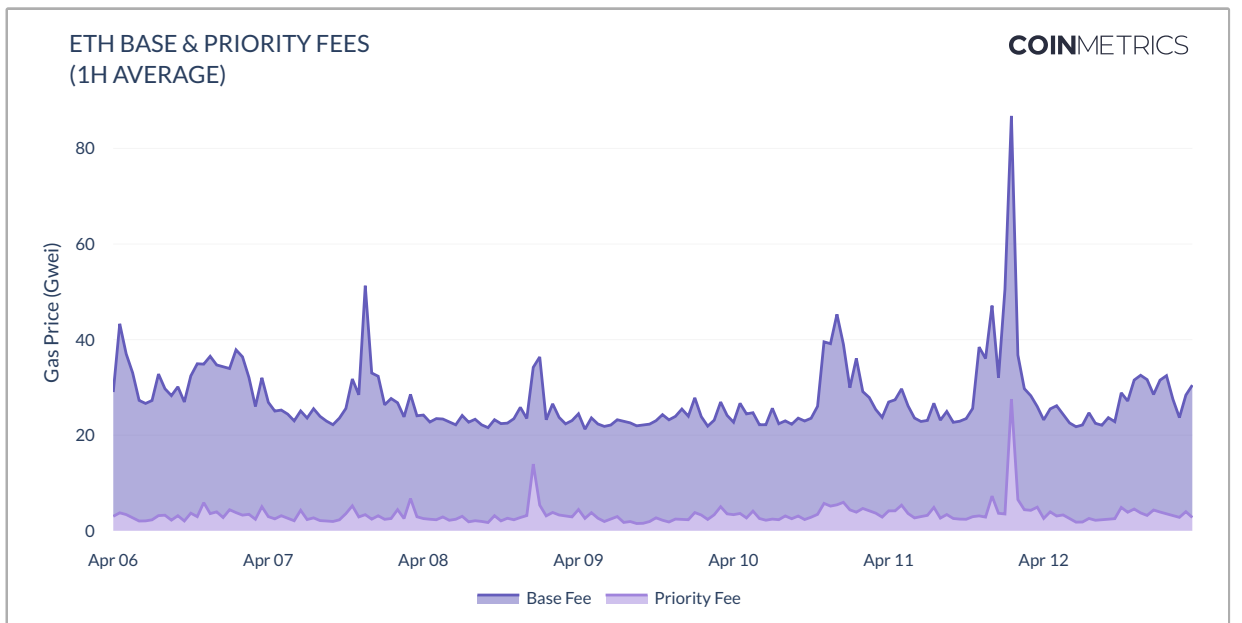
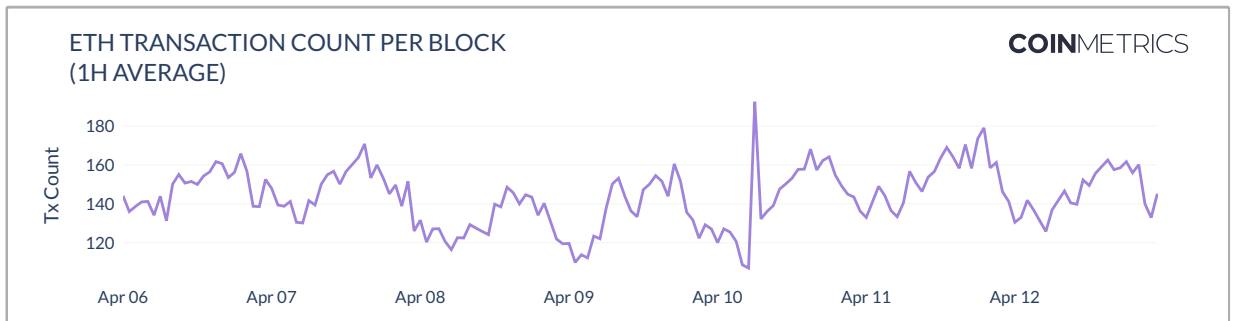
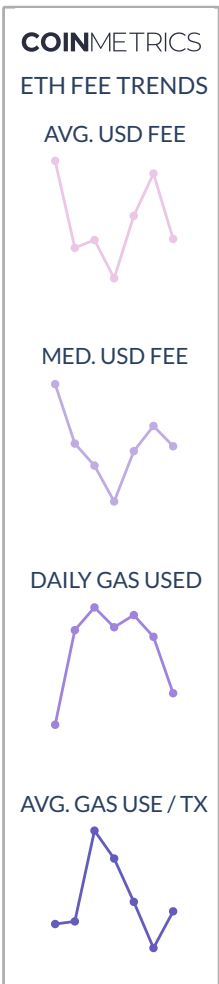
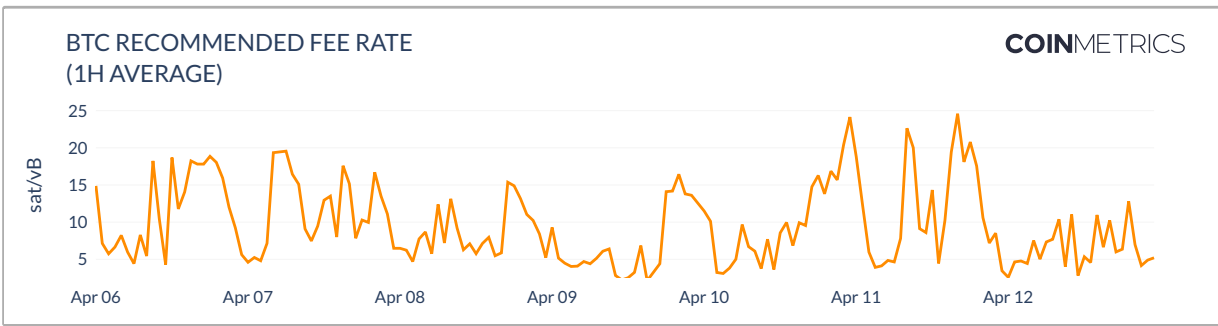
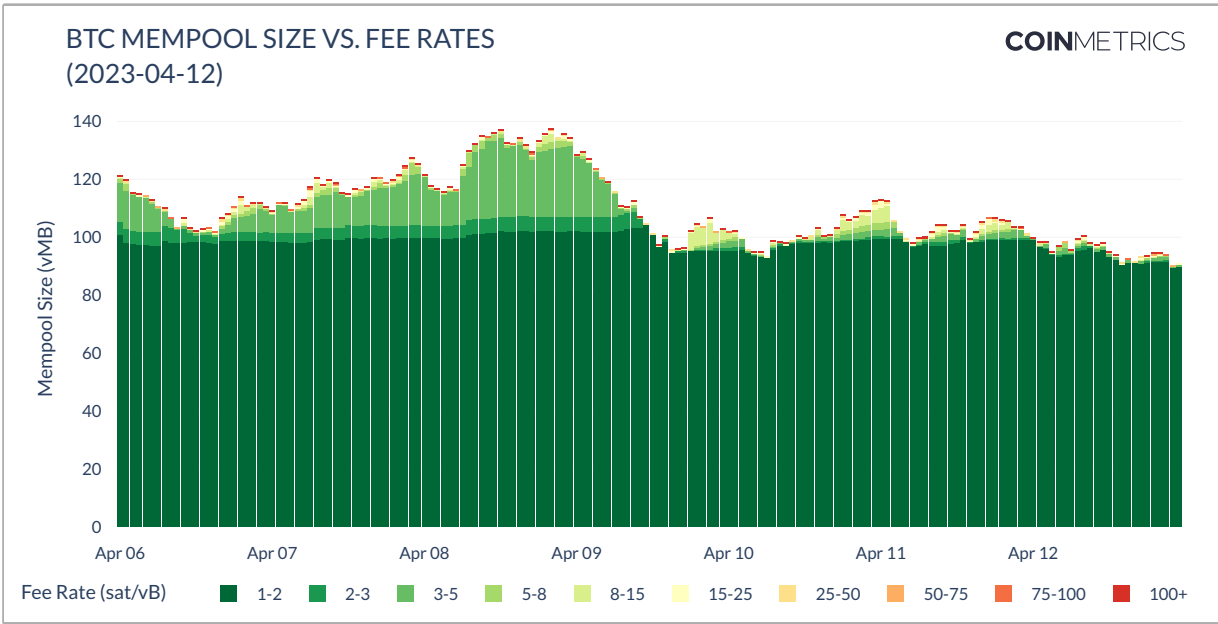
ASSET	7D CHANGE	7D AVERAGE	7D MAX	7D MIN
USDT_ETH	+1.49%	651	865	484
USDT	-5.00%	1,524	9,010	95
USDT_TRX	-11.37%	117	128	104
PAX	+5,305.03%	211,870	537,693	4,973
DAI	+65.19%	1,210	2,000	745
USDC	+16.13%	894	1,162	600
BUSD	+35.32%	430	717	311
GUSD	+107.81%	2,337	3,877	716

VELOCITY

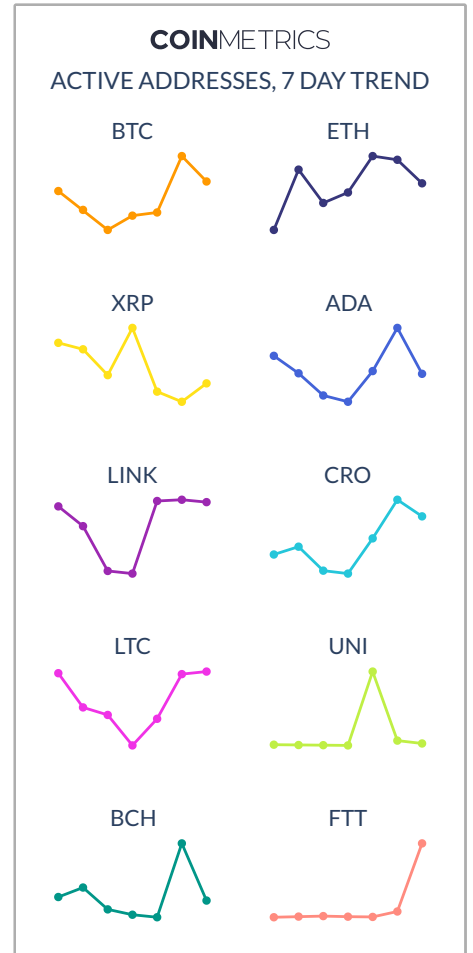
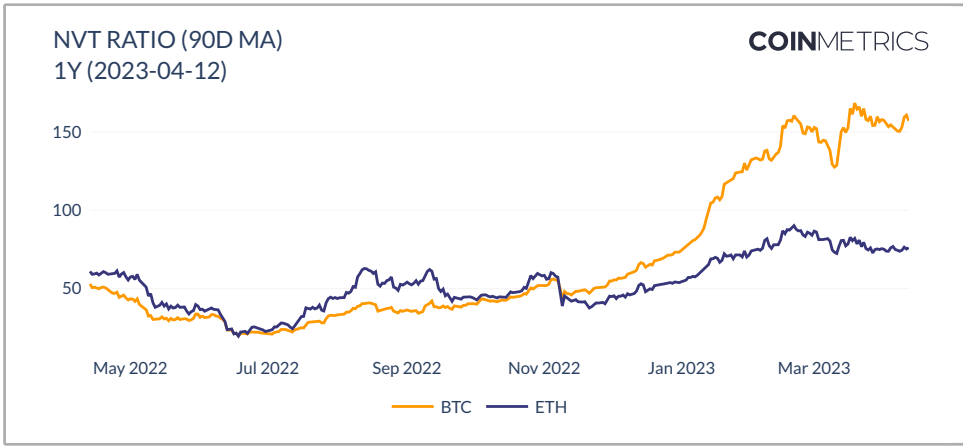
Number of times that an average native unit among the active supply has been transferred in the past 1 year

ASSET	7D CHANGE	7D AVERAGE	7D MAX	7D MIN
USDT_ETH	-0.30%	41.21	41.28	41.16
USDT	-0.78%	3.10	3.12	3.09
USDT_TRX	+0.61%	61.50	61.75	61.37
PAX	-11.44%	16.26	17.46	15.32
DAI	+1.40%	254.83	257.52	253.41
USDC	+1.08%	116.85	117.94	116.46
BUSD	+4.93%	42.24	43.71	41.61
GUSD	-4.37%	18.77	19.03	18.20

FEE MARKET



NETWORK DATA FUNDAMENTALS



ACTIVE ADDRESSES

Count of unique addresses that were active in the network

ASSET	7D CHANGE	7D AVERAGE	7D MAX	7D MIN
BTC	+3.29%	993,014	1,146,146	885,739
ETH	+7.64%	524,939	548,021	488,853
XRP	-18.25%	35,673	42,811	29,469
ADA	-14.85%	51,112	72,120	36,373
LINK	+1.75%	1,942	2,169	1,523
CRO	+23.28%	359	447	296
LTC	+0.37%	221,016	236,762	196,955
UNI	+17.95%	1,816	8,184	616
BCH	-4.77%	33,751	57,090	24,131
FTT	+1,426.98%	206	962	63

FREE FLOAT SUPPLY

Sum of native units readily available to trade in open markets

ASSET	7D CHANGE	7D AVERAGE	7D MAX	7D MIN
BTC	-0.03%	13,816,126	13,818,614	13,812,960
ETH	-0.04%	109,249,943	109,272,736	109,226,372
XRP	+0.00%	45,348,540,590	45,350,160,359	45,347,299,653
ADA	+0.40%	30,023,301,593	30,093,322,709	29,972,512,179
LINK	-0.01%	509,307,915	509,327,743	509,271,640
CRO	-0.00%	12,780,369,705	12,780,631,137	12,780,036,916
LTC	+0.03%	63,767,254	63,775,442	63,757,675
UNI	+0.07%	231,381,924	231,489,695	231,338,335
BCH	+0.02%	13,025,259	13,027,173	13,024,196
FTT	+0.16%	317,196,120	317,267,550	316,767,541

TRANSACTION COUNT

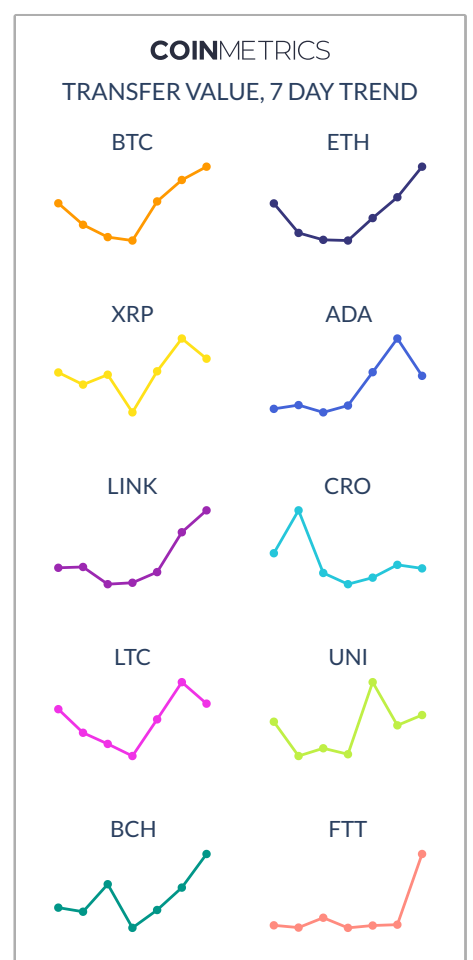
Count of transactions

ASSET	7D CHANGE	7D AVERAGE	7D MAX	7D MIN
BTC	-2.14%	331,431	375,758	277,152
ETH	-1.47%	1,012,106	1,084,502	924,776
XRP	-2.80%	1,183,494	1,373,126	1,069,714
ADA	-4.66%	51,362	64,680	40,864
LINK	+6.22%	2,187	2,563	1,724
CRO	+24.54%	430	559	355
LTC	-3.09%	94,707	98,908	86,668
UNI	+40.53%	1,848	8,114	654
BCH	+16.88%	10,204	11,544	9,259
FTT	+2,596.74%	450	2,481	67

TRANSFER VALUE, ADJUSTED

USD value of the sum native units transferred removing noise

ASSET	7D CHANGE	7D AVERAGE	7D MAX	7D MIN
BTC	+59.46%	4,193,874,798	7,203,306,447	1,782,135,744
ETH	+52.58%	2,554,864,214	4,601,279,656	1,414,462,053
XRP	+21.82%	482,717,880	751,391,061	179,954,927
ADA	+16.64%	8,972,115,002	11,014,059,260	7,987,802,520
LINK	+224.07%	36,482,168	89,325,981	9,914,937
CRO	-33.63%	1,320,800	3,170,817	508,396
LTC	+4.90%	68,852,461	95,363,820	44,949,029
UNI	+15.59%	16,672,761	38,568,922	4,016,840
BCH	+48.77%	15,808,019	21,546,718	11,820,603
FTT	+1,013.88%	4,906,197	21,735,457	1,248,659



ADDRESSES ≥ \$1

Count of addresses holding at least \$1 worth of native units

ASSET	7D CHANGE	7D AVERAGE	7D MAX	7D MIN
BTC	+0.47%	38,637,335	38,721,664	38,494,270
ETH	+1.07%	57,430,299	57,860,100	57,137,766
XRP	+0.18%	4,663,629	4,667,709	4,659,201
ADA	+0.64%	3,688,648	3,700,793	3,677,423
LINK	+0.26%	504,950	505,580	504,256
CRO	+0.10%	150,678	150,777	150,554
LTC	+0.16%	2,202,817	2,214,340	2,196,101
UNI	-2.33%	298,953	302,123	294,752
BCH	+0.54%	4,043,274	4,061,635	4,019,508
FTT	+4.37%	20,565	21,321	20,399

ADDRESSES ≥ \$1M

Count of addresses holding at least \$1M worth of native units

ASSET	7D CHANGE	7D AVERAGE	7D MAX	7D MIN
BTC	+2.11%	73,238	74,299	72,435
ETH	+1.91%	11,253	11,411	11,126
XRP	+0.00%	1,167	1,175	1,160
ADA	+4.18%	1,069	1,096	1,050
LINK	+0.27%	368	371	363
CRO	+0.00%	61	61	61
LTC	+0.40%	503	506	500
UNI	-1.03%	291	292	289
BCH	+0.42%	237	239	234
FTT	+60.00%	16	24	15

DATA EXPLAINER (P.1)

ESTIMATED MARKET CAPITALIZATION (MARKET CAP)

Estimated Market Capitalization (Market Cap) is an asset's reported supply multiplied by its price. In this version of the metric, circulating supply is reported by the projects or other derived sources.

PRICE

Closing Price (4PM), High Price, Low Price, % Change in Price for each asset for the previous month and the previous 52-week period. Price represents Coin Metrics' Reference Rate, which is calculated using an independent methodology robust to manipulation. [More information](#) on Coin Metrics' Reference Rates.

DIGITAL ASSET TAXONOMY

Asset classes, sectors, and sub-sectors are derived from datonomy™, a digital asset classification system created by Coin Metrics, Goldman Sachs, and MSCI, offering a consistent, standardized way for investors to analyze the digital assets ecosystem.

Class is the top level of the classification system, describing the fundamental purpose of an asset.

Sector describes specialization of an asset within a class.

Sub-Sector delineates the asset within a sector by the specific product, service, or function it provides to users.

datonomy™ offers a new level of transparency into how the market is moving and serves as a powerful foundation for portfolio performance measurement, risk management, reporting, & investment strategy. [More info](#) on datonomy.

SECTOR INDEXES

The Total Market Series is a suite of indexes measuring segments of the digital assets ecosystem as defined by datonomy™, allowing investors to passively track the growth of sectors and sub-sectors. The full list of index offerings is outlined below:

- **CMBIAUE:** CMBI Application Utilities Sector Even
- **CMBIBUE:** CMBI Blockchain Utilities Sector Even
- **CMBIBSE:** CMBI Business Services Sector Even
- **CMBIDFIE:** CMBI Decentralized Finance Sector Even
- **CMBIITE:** CMBI Information Technology Sector Even
- **CMBIIFE:** CMBI Intermediated Finance Sector Even
- **CMBIMSE:** CMBI Media Services Sector Even
- **CMBIMTAE:** CMBI Metaverse Sector Even
- **CMBISCPE:** CMBI Smart Contracts Platform Sector Even
- **CMBISCE:** CMBI Specialized Coins Sector Even
- **CMBIVTCE:** CMBI Value Transfer Coins Sector Even
- **CMBIDEXE:** CMBI Decentralized Exchanges Sub-Sector Even
- **CMBINSE:** CMBI Network Scaling Sub-Sector Even
- **CMBINFTE:** CMBI NFT Ecosystem Sub-Sector Even

CMBI SINGLE ASSET SERIES

The CMBI Single Asset Series provide the cryptoasset community, investors and asset managers with publicly available and investable benchmarks that reliably and accurately track the price of a single cryptoasset, through sourcing market prices from numerous global liquidity venues. [More information](#) on Coin Metrics Indexes.

CMBI BITCOIN

Daily level for Coin Metrics Bletchley Index (CMBI) Bitcoin for the previous month. CMBI Bitcoin tracks the price and performance of Bitcoin by sourcing BTC/USD market prices from numerous global liquidity venues. As of 4/9/2023 constituent markets in the CMBI Bitcoin were Binance.US, Bitstamp, Bittrex, Coinbase, Gemini, itBit and Kraken. [More information](#) on Coin Metrics Indexes.

CMBI ETHEREUM

Daily level for CMBI Ethereum for the previous month. CMBI Ethereum tracks the price of Ethereum by sourcing ETH/USD market prices from numerous global liquidity venues. As of 4/9/2023 constituent markets in the CMBI Ethereum were Binance.US, Bitstamp, Bittrex, Coinbase, Gemini, itBit and Kraken. [More information](#) on Coin Metrics Indexes.

CMBI MULTI ASSET SERIES

The CMBI Multi Asset Series provide the cryptoasset community, investors and asset managers with publicly available and investable benchmarks that reliably and accurately track the value of cryptoasset markets. [More information](#) on Coin Metrics Indexes.

CMBI 10

Daily level for CMBI 10 for the previous month. The CMBI 10 is designed to measure the performance an investor would expect from investing in a diversified basket of cryptoassets weighted by their free float market capitalization. The 10 largest cryptoassets, defined by an asset's expected 10 year future market capitalization, are selected as the index constituents. [More information](#) on Coin Metrics Indexes.

CMBI 10 MOMENTUM

Daily level for CMBI 10 Momentum for the previous month. The CMBI 10 Momentum is designed to measure the performance of a short term momentum factor applied to a basket of the 10 largest cryptoassets. The 10 largest cryptoassets, defined by an asset's expected 10 year future market capitalization, are selected as the index constituents. [More information](#) on Coin Metrics Indexes.

DATA EXPLAINER (P.2)

TRADING DIARY

Total Volume, which is the total traded volume for the previous week for the cryptoassets under Coin Metrics Reference Rate Coverage.

Adv. Volume is the total traded volume for the previous week for all cryptoassets under Coin Metrics Reference Rate Coverage that had closing prices higher than their opening prices for the week.

Decl. Volume is the total traded volume for the previous week for all cryptoassets under Coin Metrics Reference Rate Coverage that had closing prices lower than their opening prices for the week.

Advances are the number of cryptoassets that had closing prices higher than their opening price for the week.

Declines are the number of cryptoassets that had closing prices lower than their opening price for the week.

The ratio of advances to declines can be used to determine the breadth of market direction. For example, higher advance/decline ratios indicate that advancing market direction is driven by a broader set of cryptoassets.

EXCHANGE SPOT VOLUME MARKET SHARE

Market share of exchange spot volume for the previous week for the Markets covered by Coin Metrics.

BASE ASSET SPOT VOLUME MARKET SHARE

Market share of base asset volume for the previous week for the top 25 cryptoassets based on volume under Coin Metrics Reference Rate Coverage.

LIQUIDATIONS

Exchanges which offer futures products have a liquidation system that will attempt to close a market participant's position before the point at which the market participant begins to owe more than the available amount of collateral in their account. If a short trade enters liquidation, the exchange will enter a 'buy' order to forcibly close out the position. Vice versa, if a long trade enters liquidation, the exchange will enter a 'sell' order to forcibly close out the position.

% PRICE CHANGE

Percentage change in price over the previous week for cryptoasset gainers and losers in Coin Metrics' Reference Rate and Market Cap coverage universe. Coin Metrics' price/Reference Rate is calculated using an independent methodology robust to manipulation. [More information](#) on Coin Metrics' Reference Rates.

REPORTED EXCHANGE VOLUME

Our exchange reported volume metric is an aggregation of the daily reported volume from an exchange in units of U.S. dollars.

SPOT VOLUME SHARE, % BY ASSET

Exchange spot volume asset share is derived using Coin Metrics market candles. Candles include volume and volume-weighted average price, as well as open, high, low, and close values for each market. Candles are available at various intervals, from 1-minute to 1-day frequency. Candle USD volume is calculated by aggregating the total volume of trades for each base pair in a given window and multiplying by the asset's Coin Metrics Reference Rate.

ORDER BOOK DEPTH

Order book depth (+/-2%) is calculated using Coin Metrics order book snapshots. Coin Metrics stores three types of order book snapshots. One type consists of a snapshot of the top 100 bids and top 100 asks taken once every 10 seconds for major markets. The 2nd type includes all levels where the price is within 10 percent of the midprice taken once every 10 seconds for major markets. The 3rd type consists of a full order book snapshot (every bid and every ask) taken once every hour for all markets that we are collecting order book data for.

DEX REPORTED SPOT VOLUME

Decentralized exchange spot volume is calculated by aggregating the total amount of USD trading volume occurring in major DEX liquidity pools. The subset of liquidity pools where both the base and the quote asset have a Coin Metrics Reference Rate are included.

DEX RISING VOLUME

Decentralized exchange rising volume is calculated by aggregating the total amount of USD trading volume occurring in major DEX liquidity pools and selecting the pools with the largest week-over-week rise in volume. The subset of liquidity pools where both the base and the quote asset have a Coin Metrics Reference Rate are included.

DEX FALLING VOLUME

Decentralized exchange falling volume is calculated by aggregating the total amount of USD trading volume occurring in major DEX liquidity pools and selecting the pools with the largest week-over-week decline in volume. The subset of liquidity pools where both the base and the quote asset have a Coin Metrics Reference Rate are included.

DATA EXPLAINER (P.3)

DEX VOLUME BY FEE TIER

Decentralized exchange volume by fee tier is calculated by aggregating the total amount of swap USD volume that occurred in each liquidity pool, segmented by the different fee tiers of pools available for each pair. Revenue by fee tier is calculated by multiplying the amount of USD volume by the fee tier of the liquidity pool in which the volume occurred. [More information](#) on Coin Metrics DeFi data.

DEX TOTAL VALUE LOCKED (TVL)

Decentralized exchange total value locked is derived by calculating the amount of tokens held in all DEX liquidity pools covered by Coin Metrics. Balance held by each liquidity pool smart contract is retrieved using ATLAS, Coin Metrics' universal blockchain search engine. [More information](#) on Coin Metrics ATLAS.

FUTURES OPEN INTEREST

The reported futures open interest from markets in Coin Metrics' coverage in units of U.S. dollars, aggregated across all futures markets for a particular asset. Covered markets can be found in the Coin Metrics [Data Encyclopedia](#).

FUTURES BASIS

The futures basis is the percent difference between the price of a dated futures contract and the price of its underlying spot market, calculated using the Coin Metrics Reference Rate. In addition to calculating futures basis manually, Coin Metrics also offers annualized [futures basis metrics](#) at the exchange-asset level.

FUTURES VOLUME

The reported futures volume from the markets in Coin Metrics' coverage in units of U.S. dollars, aggregated across all futures markets for a particular asset. Covered markets can be found in the Coin Metrics [Data Encyclopedia](#).

FUNDING RATES

Funding rates are a mechanism that exchanges use to ensure that perpetual futures trade at a price that is close to the price of the underlying spot markets. The funding rate is used to calculate the funding fee which long position holders pay short position holders, or vice versa, as a way to incentivize market participants to take positions that keep perpetual futures prices close to the underlying.

Positive funding rates indicate that the price of a perp contract is higher than mark price, forcing traders with long positions to pay those holding shorts. Inversely, negative funding rates mean that perp prices are below mark price, so those with shorts must pay the longs. Some analysts have noted that persistently positive funding rates tend to precede a downturn, while persistently negative rates can lead to short squeezes.

PERP & NON-PERP OPEN INTEREST

The reported futures open interest from markets in Coin Metrics' coverage in units of U.S. dollars, aggregated across all futures markets for a particular asset and segmented by contract type (perpetual and non-perpetual futures).

A perpetual ("perp") contract is a special type of futures contract, which is an agreement to buy or sell a cryptoassets at a predetermined price at a specified time in the future. Perpetuals do not have an expiry date, so one can hold the position for as long as desired.

OPTIONS OPEN INTEREST

The reported options open interest from markets in Coin Metrics' coverage in units of U.S. dollars. Currently, the open interest displayed is collected from Deribit, the largest crypto options exchange. Open interest is broken down into calls (long positions) and puts (short positions) to highlight prevailing investor sentiment.

OPTIONS IMPLIED VOLATILITY VS. STRIKE PRICE (VOLATILITY SMILE)

Implied volatility represents the market's expectation of future volatility as derived from options prices, calculated using an options pricing model. When this value is input to an options pricing model, that makes the actual options price equal to its theoretical price.

The options implied volatility (IV) vs. strike price visualization (also known as a "volatility smile") is generated by plotting the IV of each options contract with a common expiration date against the corresponding strike prices of each contract. This representation underscores the fact that out-of-the-money (OTM) options must factor in a higher likelihood of extreme, market-moving events when compared to in-the-money (ITM) options, warranting a higher premium to be paid for the IV component of that contract.

OPTIONS GREEKS

Option greeks represent the sensitivity of the price of an options contract with respect to changes in its underlying parameters. Greeks are used in risk management & hedging so that market participants can achieve their desired exposure. Exchanges report the following greeks:

- **Vega:** The 1st derivative of an option's price to the volatility of the underlying asset's price.
- **Theta:** The 1st derivative of an option's price to the passage of time.
- **Rho:** The 1st derivative of an option's price to the risk free interest rate.
- **Delta:** The 1st derivative of an option's price to the underlying asset's price.
- **Gamma:** The 2nd derivative of an option's price to the underlying asset's price.

DATA EXPLAINER (P.4)

MARKET CAPITALIZATION (MARKET CAP)

Market Capitalization (Market Cap) is an asset's on-chain supply (Coin Metrics' Current Supply) multiplied by its price. Current supply is the sum of all native units ever created (i.e., issued) and visible on the ledger.

Market cap is the most commonly used measure of a cryptoasset's total market value. However, market cap can be misleading because it treats each unit of supply equally. Unlike with traditional equities, significant amounts of cryptoassets are permanently lost or go unclaimed, yet are still counted as part of the on-chain supply.

FREE FLOAT MARKET CAP

The sum USD value of the free float supply. Also referred to as free float network value or free float market capitalization.

Free Float Market Capitalization is a measure of the market value of an asset's supply that is issued and available to market participants. This excludes supply that is held by company insiders, controlling investors, and long term strategic holders. Free Float Supply also excludes large token burn wallets and funds that have been provably lost.

REALIZED CAP

Realized cap is calculated by valuing each unit of supply at the price it last moved on-chain (i.e. the last time it was transacted). For example if a coin was last transacted three years ago when the price was \$2,500, that particular coin would be priced at \$2,500 instead of the current market price. The realized cap is the total sum of all coins priced this way.

Realized cap provides a more realistic representation of market cap and discounts coins that are lost or out of circulation.

MARKET TO REALIZED VALUE (MVRV)

MVRV is the ratio of a cryptoasset's market cap (aka market value) to realized cap (aka realized value).

It can be used to help gauge cryptoasset market tops and bottoms. Historically, periods where Bitcoin's MVRV has dropped below 1.0 have coincided with market bottoms and in hindsight have been the best times to buy.

TOTAL STABLECOIN SUPPLY

Total Stablecoin Supply based on Coin Metrics' Current Supply, which reflects all native units ever created and visible on the ledger (i.e., issued). Tether supply includes Tether Omni, Tether ETH, and Tether Tron. Other Stablecoins include PAX, DAI, USDC, BUSD, GUSD, HUSD, TUSD, and SAI.

TETHER PREMIUM/DISCOUNT TO USD

30-day moving average of Tether's price YTD premium or discount to USD. Price represents Coin Metrics' Reference Rate, which is calculated using an independent methodology robust to manipulation. [More information](#) on Coin Metrics' Reference Rates.

MARKET CAPITALIZATION

See prior explanation.

TRANSFER VALUE, ADJUSTED

Transfer value is the total amount of a cryptoasset transferred over the course of a day, denominated in USD. We adjust raw transfer value to remove noisy "non-economic" behavior such as self-sends and spam.

TRANSACTION COUNT

Transaction count is the measure of the number of transactions either sent or received on a daily basis. Similar to active addresses it is a measure of network activity but it is susceptible to some spam and other types of manipulation.

MEDIAN TRANSFER VALUE

The median USD value transferred per transfer (i.e., the median "size" in USD of a transfer) between distinct addresses.

VELOCITY

The ratio of the value transferred (i.e., the aggregate "size" of all transfers) in the trailing 1 year divided by active supply in the trailing 1 year.

Velocity can be thought of as the rate of turnover— the number of times that an average native unit among the active supply has been transferred in the past 1 year.

DATA EXPLAINER (P.5)

MEMPOOL SIZE VS. FEE RATES

Coin Metrics' Mempool Monitor provides a full breakdown of what other network participants are willing to pay to have their transactions settled, thereby enabling precise fee estimation and settlement prediction. The chart showcases all feerate levels that have corresponding transactions in the mempool. For each feerate level, the total number of mempool transactions, as well as their size (in virtual bytes), are monitored.

BTC RECOMMENDED FEE RATE

The recommended minimum feerate required for a transaction to be included in the upcoming blockchain block. This metric accounts for situations where there are many transactions paying the minimum feerate by adding an additional cushion to the minimum estimate, providing better settlement guarantees.

BTC FEE TRENDS

The USD value of the mean and median fee per transaction that interval. Average fees per unit of blockspace (bytes and virtual bytes) are also calculated.

TRANSACTION COUNT PER BLOCK

The count of all transactions within the most recent block processed.

ETH GAS PRICES

The most recent block we processed within a 1-minute window is evaluated and its Base Fee and Priority Fees are captured. The concept of a Base Fee was introduced as part of EIP-1559 and it represents the portion of the total transaction fees that is destroyed and taken out of circulation (i.e. burnt). Ethereum post-1559 requires users to pay for a Base Fee as a prerequisite to include transactions in a block. The Base Fee can go up or down on the basis of the size (in gas units) of the previous block. The concept of a Priority Fee was introduced as part of EIP-1559 and it represents the portion of the total transaction fees that rewards validators. This serves as an added incentive so that validators prioritize transactions that have opted-in and paid a tip.

ETH FEE TRENDS

The USD value of the mean and median fee per transaction that interval. The sum gas used (i.e. paid) across all transactions and mean gas used (i.e. paid) per transaction that day are also captured.

NVT RATIO

The ratio of the network value (or market capitalization) to the 90-day moving average of the adjusted transfer value.

NVT uses native units network value and adjusted transaction volume. It is therefore available at the asset's genesis, unlike if it was using USD values. It can be thought of as a rough P/E (price to earnings) ratio proxy for crypto assets.

ACTIVE ADDRESSES

Active addresses is the unique number of addresses that either send or receive a transaction, calculated daily.

This metric can serve as a rough proxy for daily active users. However, it's not exact— a single user can have many addresses, and a single addresses can be owned by many users.

FREE FLOAT SUPPLY

Coin Metrics' free float supply takes many of the best practices from traditional capital markets and applies them to cryptoassets to identify supply that is highly unlikely to be available to the market in the short to mid-term. In doing so, free float supply provides a better approximation of a cryptoasset's liquidity and market capitalization compared to standard supply measurements. [More information](#) on Coin Metrics Free Float Supply.

TRANSACTION COUNT

See prior explanation.

TRANSFER VALUE, ADJUSTED

See prior explanation.

ADDRESSES WITH \geq \$1

The count of addresses that hold at least \$1 worth of a cryptoasset. This gives a rough estimation of the amount of users that hold an asset, with the same caveats that apply for active addresses.

ADDRESSES WITH \geq \$1M

The count of addresses that hold at least \$1M worth of a cryptoasset. This gives a rough estimation of the amount of institutional investors that hold an asset, with the same caveats that apply for active addresses.

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