For the week ended on Nov. 4 Updated as of Nov. 4 at 8 pm ET

11/05/2018

Ken Xuan^{AC}
CRYPTO CURRENCY STRATEGY



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Benchmark Crypto Indices Weekly Performance Analysis

FS CryptoFX 10 Large-cap

+0.4%

FS CryptoFX 40 Mid-cap

+0.7%

FS CryptoFX 250 Small-cap

-3.1%

FS CryptoFX 300

+0.3%

FS CryptoFX Agg

+0.2%

FS FX Eq Weight
Top 50

-0.2%

Commodities

+0.3%

Platforms

+1.2%

Exchanges

-1.8%

Privacy

+4.0%

Stable Coins

-1.1%

Crypto Currency Strategy

Thomas J. Lee, CFA AC Robert Sluymer, CFAAC Sam Doctor AC Ken Xuan AC Alex Kern **Portfolio Strategy**

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Technical Strategy

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Bloomberg: FSGA <<GO>>

For Reg AC certification and other important disclosures, see <u>Disclosures</u>, <u>Slide 95</u>.

Research team



Thomas J. Lee, CFA Co-Founder, Head of Research *In research: 25 years*

Prior to founding Fundstrat, Mr. Lee was at J.P. Morgan from 1999 to 2014 and served as Chief Equity Strategist from 2007 to 2014. He was topranked by Institutional Investor every year since 1998. Previously served as Managing Director at Salomon Smith Barney. Mr. Lee graduated from the undergraduate program at the Wharton School, University of Pennsylvania.



Sam Doctor Head of Data Science Research In research: 18 years

Head of Data Science Research. Former US Small and Mid Cap Technology Analyst and India Small / Mid Cap Strategist at J.P. Morgan Chase.



Rob Sluymer, CFA Head of Technical Analysis Strategy In research: 26 years

Head of Technical Research with over 26 years experience writing technical research at RBC Capital Markets



L. Thomas Block Washington and Policy Strategist Head of JPM policy: 21 years

Tom had a 21-year career at J.P. Morgan, serving as Global Head of Government Relations. Prior to joining JP Morgan Chase in 1987, he previously worked in Washington and held several positions with members of the House and Senate, serving as Legislative Assistant and Chief of Staff in the House, and Legislative Staff Director in the Senate



Alex Kern Research Analyst In research: 3 years

Previously a Research Analyst with Digital Currency Group. Prior to that, Alex was a Fintech and Payments Equity Research Associate with Cowen & Co. Alex received his B.A. in History from the University of Pennsylvania in 2014.



Ken Xuan Quantitative Analyst In research: 4 years

Data scientist with expertise in applied mathematics and statistical analysis. Ken was an operations strategy consultant at West Monroe Partners. Ken received a B.S. degree in Management, Economics from Purdue University in 2013 and an M.S. degree in Operations Research from Columbia University in 2017.



Kelsey Burhans Research Analyst In research: 2 years

Previously an Equity Research Associate in Specialty Finance at Stephens Inc. Kelsey received her B.A. degree in Chinese Language & Culture, with a concentration in Economics, from Wellesley College in 2017.

Source: Fundstrat, Bloomberg, Factset



Executive Summary

Overview

- SIZE: FS Large-cap 10, FS Mid-cap 40, FS small-cap 250
- SECTOR: Commodities
- SECTOR: Platforms
- SECTOR: Exchanges
- SECTOR: Privacy
- SECTOR: Stable coins
- Chartbook: FS Large-cap 10 and FS Mid-cap 40



Commentary

Highlighted Moves (Slide 6)...

The overall crypto market price (based on the FS Crypto Agg Index) was up by 0.2% in the past week. YTD, the crypto market is down -68.5%.

Correlation BTC vs Asset Classes (Slide 9)...

When comparing Bitcoin to other major asset classes (stocks, bonds, hedge funds, oil and gold), Bitcoin has the highest correlation to S&P Risk Parity Index (21.4%) and the lowest correlation to Gold (-16.2%).

- In the past 30D, the notable correlation rise (vs Bitcoin) is Salient Risk Parity ldx (6.6% delta) from 14.9% to 21.4%.
- In the same period, the most notable drop in correlation (vs Bitcoin) is Oil (-2.9% delta) from 19.2% to 16.3%.

Leadership Ratio Rankings (Slide 12)...

Ranking cryptocurrencies on win-ratio plus upside/downside volatility, we derive our leadership ratio.

- Top 3 tokens are Dogecoin, Waltonchain and Zilliqa.
- Worst 3 tokens are Ethereum Classic, Zcash and Augur.

Sector Insights (Slide 13)...

5 size indices and 4 sector-based indices outperformed BTC in the past week.

- In the past week, the best performing size index was FS CryptoFX 40 with performance of 0.7%, while the worst performing size index was FS CryptoFX 250 with performance of -3.1%.
- In the past week, the best performing sector index was FS CryptoFX Privacy with performance of 4.0%, while the worst performing sector index was FS CryptoFX Exchange with performance of -1.8%.

Correlation Indices to BTC (Slide 9)...

We also look at correlation of the sector and size indices to Bitcoin.

- In the past 30D, the most notable rise in correlation (vs Bitcoin) is FS Exchange Index (2.0% delta) from 77.2% to 79.2%.
- In the same period, the most notable drop in correlation (vs Bitcoin) is FS Commodity Index (-0.2% delta) from 99.3% to 99.2%.



Overview: Where to find these indices

Figure: The Fundstrat Crypto-currency Indices

Fundstrat reference indices.

			Market Va	lue	Tickers			
Index	Description	Index Price	\$ millions	% share crypto	Bloomberg	Yahoo! Finance	Trading View	Financial Times
Sector Indices								
FS Crypto Commodity	Likely to be classified as commodities	\$88	\$128,115	62%	FSTOKCTB	^FSTOKCTB	FSTOKCTB	^FSTOKCTB
FS Crypto Platform	Enables decentralized applications	57	\$33,785	16%	FSTOKPLT	^FSTOKPLT	FSTOKPLT	^FSTOKPLT
FS Crypto Privacy	Tokens with anonymity features	53	\$4,164	2%	FSTOKPVT	^FSTOKPVT	FSTOKPVT	^FSTOKPVT
FS Crypto Exchange	Tokens associated with exchanges	82	\$2,003	1%	FSTOKDEX	^FSTOKDEX	FSTOKDEX	^FSTOKDEX
FS Crypto Stablecoin	Tracks the flat currencies	100	\$2,007	1%	FSTOKSTB	^FSTOKSTB	FSTOKSTB	^FSTOKSTB
Market-Cap based	d Indices							
FS Crypto 10	Top 10 largest Crypto-currencies	\$123	\$179,491	86%	FSTOK10	^FSTOK10	FSTOK10	^FSTOK10
FS Crypto 40	Top 11-50 based on market value	99	\$17,087	8%	FSTOK40	^FSTOK40	FSTOK40	^FSTOK40
FS Crypto 50 Eq Wt	Equal weighted FS Crypto 10 and 40	102	\$196,578	95%	<u>FSTOKEQW</u>	^FSTOKEQW	FSTOKEQW	^FSTOKEQW
FS Crypto 250	Top 51-300 based on market cap	74	\$6,307	3%	FSTOK250	^FSTOK250	FSTOK250	^FSTOK250
FS Crypto 300	FS Crypto 10, 40 and 250	117	#N/A	#N/A	FSTOK300	^FSTOK300	FSTOK300	^FSTOK300
FS Crypto Aggregate	Aggregate index	117	\$207,558	100%	FSTOKAGG	^FSTOKAGG	<u>FSTOKAGG</u>	^FSTOKAGG
						•		•



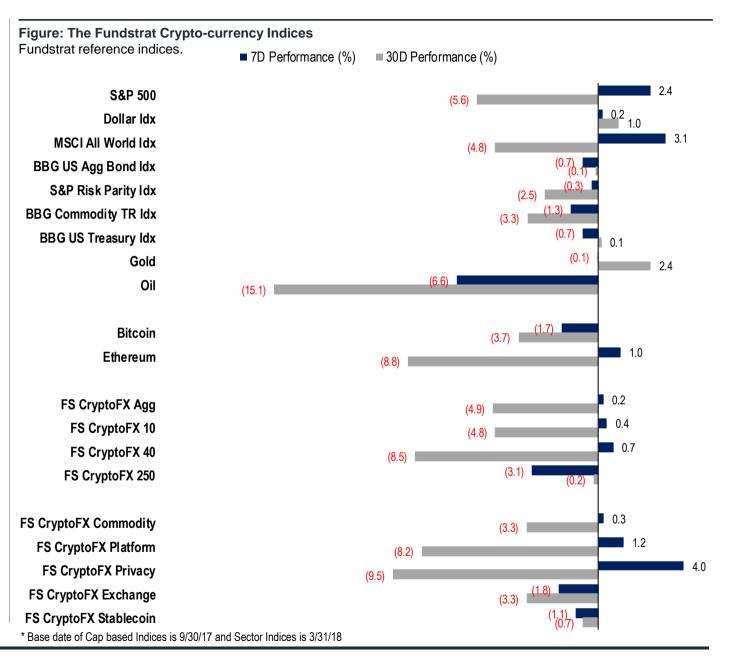
Overview

Relative Performance

Over the past 7 days, the FS CryptoFX Agg Index increased by 0.2%, compared with a 2.4% increase for the S&P 500.

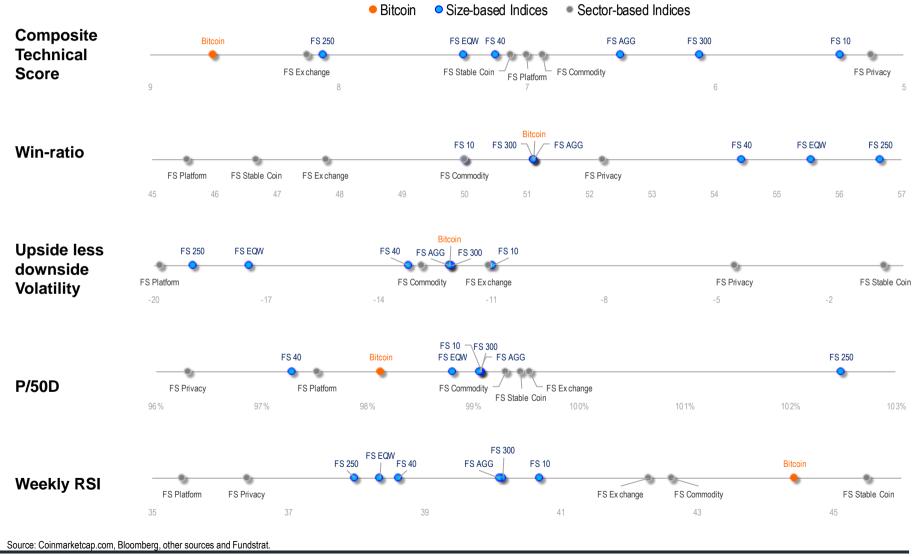
The best performing size-based index was FS CryptoFX 40, which was up 0.7%.

The best performing sector index was FS CryptoFX Privacy, which was up 4.0%.





At a Glance State of Indices



At a Glance State of Indices

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Name	Symbol	Price (USD)	Price (BTC)	Composite Technical Rank	90D Win Ratio	90D UV - DV	Price to	Relative Price to 50 DMA	Weekly RSI	5D Return	10D Return	30D Return	21 vs 50 DMA
FS Privacy	FSTOKPVT	\$53.03	0.008318	1	52	(5)	104.2%	96.3%	36	7.0	3.3	(9.5)	7.9%
FS 10	FSTOK10	\$120.95	0.018969	2	50	(11)	100.9%	99.1%	41	3.5	0.8	(4.8)	1.9%
FS 300	FSTOK300	\$115.45	0.018106	3	51	(12)	100.9%	99.1%	40	3.6	0.6	(4.9)	1.8%
FS AGG	FSTOKAGG	\$115.22	0.018070	4	51	(12)	100.9%	99.1%	40	3.5	0.6	(4.9)	1.8%
FS Commodity	FSTOKCTB	\$87.46	0.013716	5	50	(13)	100.6%	99.3%	43	2.9	0.4	(3.3)	1.3%
FS Platform	FSTOKPLT	\$56.10	0.008799	6	46	(20)	101.8%	97.5%	35	5.8	1.5	(8.2)	4.3%
FS Stable Coin	FSTOKSTB	\$98.86	0.015504	7	47	(0)	99.9%	99.4%	46	(0.9)	(0.1)	(0.7)	0.5%
FS 40	FSTOK40	\$99.27	0.015568	8	54	(13)	100.8%	97.3%	39	5.6	(0.1)	(8.5)	3.5%
FS EQW	FSTOKEQW	\$101.72	0.015954	9	56	(17)	100.7%	98.8%	38	4.5	(0.2)	(6.2)	1.9%
FS 250	FSTOK250	\$74.30	0.011653	10	57	(19)	99.8%	102.5%	38	1.4	(2.0)	(0.2)	(2.7%)
FS Exchange	FSTOKDEX	\$82.12	0.012879	11	48	(11)	98.1%	99.5%	42	2.0	(2.4)	(3.3)	(1.4%)
Bitcoin	ВТС	\$6,376.13	1.000000	12	51	(12)	98.8%	98.1%	44	0.7	(1.5)	(3.7)	0.7%

Source: Coinmarketcap.com, Bloomberg, other sources and Fundstrat



At a Glance Correlation

Within major asset classes, Bitcoin is most correlated to S&P Risk Parity Index with a 90D correlation of 21.4%.

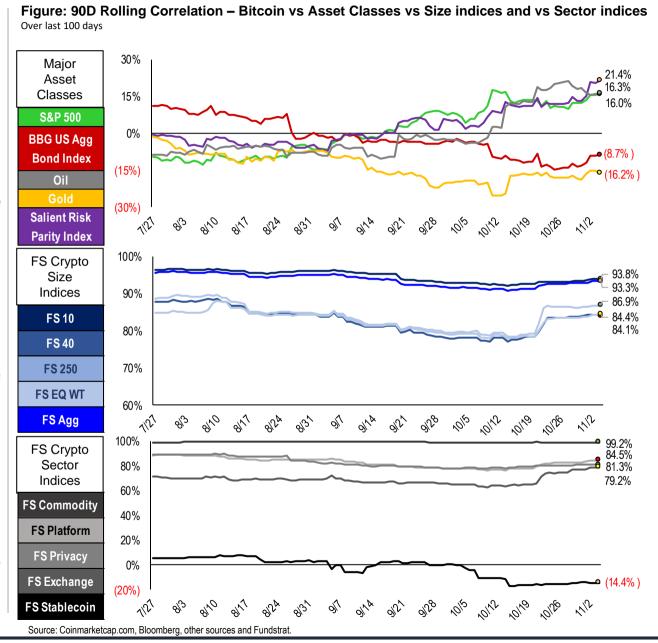
In the past week, the largest change in correlation was S&P Risk Parity Index (+9.2%).

Bitcoin is most correlated to the size index, FS 10 with a 90D correlation of 93.8%.

In the past week, the largest change in correlation was FS EQ WT (+0.7%).

Bitcoin is most correlated to the sector index, FS Commodity with a 90D correlation of 99.2%.

In the past week, the largest change in correlation was FS Exchange (+4.0%).





At a Glance State of Tokens 1 of 2

e of Tok	ens 1	of 2				Technical M	letrics								
		Price		Market		Composite Technical	90D Win	90D	Relative Price to	Relative Price to	Weekly	5D	10D		21 vs 50
Name	Symbol	(USD)	, ,	Cap (\$B)	Coin Supply	Score	Ratio UV		21 DMA		RSI	Return	Return	Return	DMA
Bitcoin Cash	ВСН	\$560.18	0.087856	9.8	17,429,163	1	47	21	124.9%	118.5%	39	32.8	27.2	7.6	6.4%
Basic Attenti	BAT	\$0.29	0.000045	0.4	1,500,000,000	2	50	9	116.9%	143.2%	57	16.8	7.8	60.2	(26.4%)
Monero	XMR	\$111.80	0.017534	1.8	16,527,938	3	52	(9)	106.1%	101.5%	42	9.0	5.2	(2.7)	4.6%
Bitcoin Gold	BTG	\$29.41	0.004613	0.5	17,408,336	4	48	13	110.1%	116.0%	45	13.6	8.6	7.7	(5.9%)
Waltonchain	WTC	\$3.35	0.000525	0.2	70,000,000	5	51	24	107.1%	110.5%	40	0.9	9.8	16.3	(3.4%)
Status	SNT	\$0.04	0.000006	0.3	6,804,870,174	6	52	(23)	105.4%	105.1%	41	7.3	7.9	3.2	0.3%
Zilliqa	ZIL	\$0.04	0.000006	0.5	12,600,000,000	7	52	16	103.8%	103.1%	38	4.9	4.4	(1.1)	0.7%
Stellar	XLM	\$0.24	0.000038	25.2	104,403,430,212	8	44	14	103.2%	102.2%	48	7.4	2.5	(1.4)	1.0%
Cardano	ADA	\$0.08	0.000012	2.4	31,112,483,745	9	48	(6)	103.3%	98.4%	40	9.5	3.2	(8.1)	4.9%
Dash	DASH	\$162.96	0.025558	1.4	8,408,789	10	47	22	104.8%	94.5%	35	6.4	5.2	(10.5)	10.2%
EOS	EOS	\$5.45	0.000855	5.5	1,006,245,120	11	48	(11)	101.8%	99.1%	43	6.0	1.5	(6.2)	2.7%
TRON	TRX	\$0.02	0.000004	2.3	99,000,000,000	12	53	5	99.2%	101.4%	43	4.9	0.6	(0.0)	(2.2%)
XRP	XRP	\$0.46	0.000073	46.3	99,991,797,922	13	43	72	101.3%	98.8%	48	4.0	1.0	(10.9)	2.5%
NEO	NEO	\$16.63	0.002608	1.7	100,000,000	14	48	(0)	102.4%	96.5%	35	9.3	0.7	(8.4)	5.9%
IOTA	MIOTA	\$0.50	0.000078	1.4	2,779,530,283	15	49	(9)	102.3%	94.0%	38	10.3	0.8	(13.6)	8.3%
Augur	REP	\$14.83	0.002326	0.2	11,000,000	16	44	(18)	108.6%	111.8%	38	2.8	8.3	16.4	(3.3%)
Bitcoin Diamond	BCD	\$1.81	0.000284	0.3	156,756,875	17	43	287	102.2%	98.8%	31	6.5	(2.7)	(8.1)	3.4%
Litecoin	LTC	\$53.61	0.008408	3.2	58,936,577	18	43	(9)	102.9%	96.8%	35	8.9	2.6	(8.8)	6.1%
Metaverse ETP	ETP	\$3.04	0.000477	0.2	56,780,285	19	46	33	99.9%	95.1%	58	(2.3)	(0.3)	(5.6)	4.8%
Mithril	MITH	\$0.26	0.000041	0.3	1,000,000,000	20	46	(14)	101.9%	97.6%	46	0.9	1.4	(8.6)	4.2%
Ethereum	ETH	\$207.49	0.032542	21.3	102,876,840	21	44	(15)	102.0%	97.1%	33	5.0	2.4	(8.8)	4.9%
OmiseGO	OMG	\$3.28	0.000514	0.5	140,245,398	22	48	(11)	100.6%	98.0%	35	3.1	(0.6)	(6.3)	2.6%
Bytecoin	BCN	\$0.00	0.000000	0.2	184,066,828,814	23	48	1	99.3%	77.1%	38	5.1	1.1	(41.0)	22.2%
Bitcoin	BTC	\$6,376.13	1.000000	110.6	17,348,362	24	51	(12)	98.8%	98.1%	44	0.7	(1.5)	(3.7)	0.7%
NEM	XEM	\$0.09	0.000015	0.9	8,999,999,999	25	49	(19)	100.2%	98.6%	37	5.2	(1.8)	(10.6)	1.6%



At a Glance State of Tokens 2 of 2

OT LOK	cens 2	OT Z				Technical M	letrics								
						Composite	90D		Relative	Relative					
		Price		Market		Technical	Win	90D	Price to	Price to	Weekly	5D	10D	30D	21 vs 50
Name	Symbol	(USD)	Price (BTC)	Cap (\$B)	Coin Supply		Ratio	UV - DV	21 DMA	50 DMA	RSI	Return	Return	Return	DMA
Binance Coin	BNB	\$9.63	0.001510	1.8	190,799,315	26	44	(9)	99.3%	97.4%	44	2.6	(0.6)	(9.5)	1.9%
aelf	ELF	\$0.32	0.000051	0.1	280,000,000	27	51	(11)	98.7%	97.1%	41	2.9	(3.8)	(5.5)	1.6%
Nano	NANO	\$1.94	0.000304	0.3	133,248,289	28	42	52	98.1%	91.7%	42	2.6	(1.5)	(11.8)	6.4%
Verge	XVG	\$0.01	0.000002	0.2	15,172,086,051	29	51	15	98.4%	96.2%	40	2.9	(3.4)	(10.2)	2.2%
ICON	ICX	\$0.64	0.000101	0.5	800,460,000	30	50	23	96.5%	97.2%	41	2.8	(3.1)	(6.1)	(0.7%)
Zcash	ΖEC	\$120.46	0.018892	0.6	5,120,369	31	40	(12)	100.4%	98.5%	39	3.9	(3.8)	(5.7)	2.0%
Qtum	QTUM	\$3.91	0.000613	0.4	100,997,296	32	46	(7)	99.1%	102.7%	36	4.0	(3.9)	2.6	(3.6%)
Steem	STEEM	\$0.80	0.000125	0.2	298,791,707	33	47	2	98.9%	94.2%	38	3.4	(0.5)	(10.6)	4.7%
Nebulas	NAS	\$1.52	0.000238	0.2	100,000,000	34	46	76	97.4%	96.1%	40	7.0	0.0	(14.6)	1.3%
IOST	IOST	\$0.01	0.000002	0.3	21,000,000,000	35	49	(5)	98.9%	97.3%	41	(1.6)	(3.7)	(7.3)	1.5%
Dogecoin	DOGE	\$0.00	0.000001	0.4	116,765,319,724	36	50	104	88.1%	72.7%	47	(4.5)	(1.1)	(35.2)	15.4%
0x	ZRX	\$0.79	0.000123	0.8	1,000,000,000	37	44	12	94.7%	108.1%	49	2.6	(6.8)	21.9	(13.4%)
Aeternity	AE	\$1.17	0.000183	0.3	273,685,830	38	47	11	93.9%	103.6%	44	2.6	(7.1)	10.4	(9.8%)
DigiByte	DGB	\$0.02	0.000003	0.2	10,986,222,675	39	51	(7)	97.0%	91.5%	43	4.7	(4.2)	(16.6)	5.4%
BitShares	BTS	\$0.10	0.000015	0.3	2,668,620,000	40	47	(15)	98.8%	91.4%	41	1.5	(0.6)	(12.7)	7.5%
Ontology	ONT	\$1.69	0.000265	1.7	1,000,000,000	41	43	89	96.4%	91.6%	46	3.0	(3.4)	(13.3)	4.8%
Bytom	ВТМ	\$0.19	0.000030	0.3	1,407,000,000	42	50	(2)	96.5%	101.2%	40	0.3	(8.0)	0.7	(4.7%)
HyperCash	HC	\$1.85	0.000290	0.1	43,529,781	43	46	30	98.1%	88.1%	40	(1.1)	(3.6)	(21.6)	9.9%
Lisk	LSK	\$2.82	0.000442	0.4	126,915,440	44	39	31	98.1%	89.9%	36	2.2	(3.4)	(15.3)	8.2%
VeChain	VET	\$0.01	0.000002	0.9	86,712,634,466	45	44	63	96.3%	87.6%	0	4.6	(5.8)	(18.7)	8.7%
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Tachnical Matrice



Huobi Token

Waves

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Ethereum Classic ETC

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(13.4)

(16.5)

(14.6)

6.3%

7.5%

(1.2%)

(3.2%)

5.4%

FS CryptoFX 10 and 40 members ranked by Win Ratio and Upside *less* Downside Vol

How to read this: the "Highest/Lowest Win Ratio" based on past 90-day daily return. High Win Ratio means the cryptocurrency has more positive return days

Win Ratio — 90 davs

Sorted high to low

90 90 UV 90 UV 90 Win Day Win Day less Day less Day DV Rank Ratio % Rank Ratio % Rank % Rank DV % TRON 53 (20)26 Aeternity (30)Bitcoin Diamond 287 12 26 Steem (31)52 (2) 47 (31)104 32 1 (42)2 Monero 27 Steem 2 Dogecoin 27 Bytecoin 52 (38)89 (0)Status (28)3 Ontology (24)28 NEO (37)28 BitShares 52 (31)46 (39)76 (29)Zilliga 29 Qtum 4 Nebulas (30)29 Bytom (2) 46 XRP Bitcoin 51 (8) 30 Metaverse ETP 30 72 12 30 Huobi Token (4) (46)46 Waltonchain 51 (5) 31 HyperCash (65)6 Holo 69 27 31 IOST (5) (40)51 (39)32 Nebulas (30)7 VeChain 63 32 Cardano (6) (42)46 51 (33)33 Mithril (44)52 (7) (33)DigiByte 8 Nano 25 33 DigiByte 46 51 (23)27 35 (39)9 Verge 34 Holo 9 Waves (1) 34 Qtum (7) 50 44 (26)(49)33 10 ICON 35 Ethereum 10 Metaverse ETP 30 35 Monero (9) (2) 50 7 (9) 11 Basic Attenti 36 Augur (47)11 Lisk 31 (27)36 IOTA (38)50 44 30 12 Bytom (29)37 Binance Coin (30)12 HyperCash (65)37 Binance Coin (9) (30)50 (16)44 13 Waltonchain 24 38 Litecoin 13 Siacoin 38 Waves (1) (5) (9) (27)50 32 39 0x (17)14 ICON 23 39 EOS 14 Dogecoin (26)(11)(23)44 15 IOTA 49 (38)40 Stellar 3 15 Dash 22 (18)OmiseGO (11) (37)44 16 NEM 49 (33)41 VeChain (21)16 Bitcoin Cash 21 (19)41 (11) (39)aelf 17 IOST 49 (40)42 Litecoin 43 (27)17 Zilliga 16 (31)42 Zcash (12) (34)18 Verge 48 43 18 Bitcoin Gold 13 43 Bitcoin Diamond 12 15 (23)43 Bitcoin (12)(8) 48 43 19 Stellar 19 NEO (37)44 Ontology (24)3 44 Mithril (14) (44)20 EOS 48 45 XRP 43 13 13 (15) (23)12 20 Bitcoin Gold 45 BitShares (38)48 42 12 46 Ethereum 21 OmiseGO (37)46 Nano 25 21 0x (17)(15)(49)47 Ethereum Classic 22 Cardano 48 (42)41 47 Augur (50)22 Aeternity 11 (30)(18)(47)48 (42)48 Zcash 40 (34)7 48 NEM (19)23 Bytecoin 23 Basic Attenti (33)47 (19)49 Huobi Token 40 (46)24 Siacoin (16)49 (23)(28)Status

25 TRON

How to read this: Upside less Downside vol is calculated by using the volatility of daily returns on up days minus the volatility of daily returns on down days over the past 90 days.

Upside Vol less downside Vol — 90 days

Sorted high to low

How to read this: The Leadership Ratio ranks the cryptocurrencies on the combined Win Ratio and Upside less Downside Volatility spread

Rank of A + B Leadership Ratio (avg of A + B) Sorted high to low													
		UV	90			UV	90						
	Win	less	Day		Win	less	Day						
Top 25	Ratio	DV	%	Bottom 25	Ratio	DV	%						
1 Dogecoin	50	104	32	1 Ethereum Classic	41	(31)	(50)						
2 Waltonchain	51	24	(5)	2 Zcash	40	(12)	(34)						
3 Zilliqa	52	16	(31)	3 Augur	44	(18)	(47)						
4 ICON	50	23	(26)	4 Ethereum	44	(15)	(49)						
5 TRON	53	5	(20)	5 Litecoin	43	(9)	(27)						
6 Verge	51	15	(23)	6 Huobi Token	40	(4)	(46)						
7 Basic Attenti	50	9	7	7 Mithril	46	(14)	(44)						
8 Nebulas	46	76	(30)	8 Binance Coin	44	(9)	(30)						
9 Monero	52	(9)	(2)	9 BitShares	47	(15)	(38)						
10 Siacoin	50	6	(16)	10 NEM	49	(19)	(33)						
11 Bitcoin Gold	48	13	13	11 Qtum	46	(7)	(39)						
12 Metaverse ETP	46	33	30	12 OmiseGO	48	(11)	(37)						
13 Holo	46	69	27	13 Lisk	39	31	(27)						
14 Dash	47	22	(18)	14 0x	44	12	(17)						
15 Bitcoin Cash	47	21	(19)	15 EOS	48	(11)	(23)						
16 Bytom	50	(2)	(29)	16 Stellar	44	14	3						
17 DigiByte	51	(7)	(33)	17 Cardano	48	(6)	(42)						
18 HyperCash	46	30	(65)	18 Nano	42	52	25						
19 Bitcoin Diamond	43	287	12	19 Steem	47	2	(31)						
20 Waves	44	35	(1)	20 Status	52	(23)	(28)						
21 Ontology	43	89	(24)	21 IOTA	49	(9)	(38)						
22 NEO	48	(0)	(37)	22 Bytecoin	48	1	(42)						
23 Bitcoin	51	(12)	(8)	23 XRP	43	72	12						
24 VeChain	44	63	(21)	24 IOST	49	(5)	(40)						
25 Aeternity	47	11	(30)	25 aelf	51	(11)	(39)						



50 Lisk

Source: Coinmarketcap.com, Bloomberg, other sources and Fundstrat

39 (27)

(18)

47

25 Dash

50 Ethereum Classic

(31) (50)

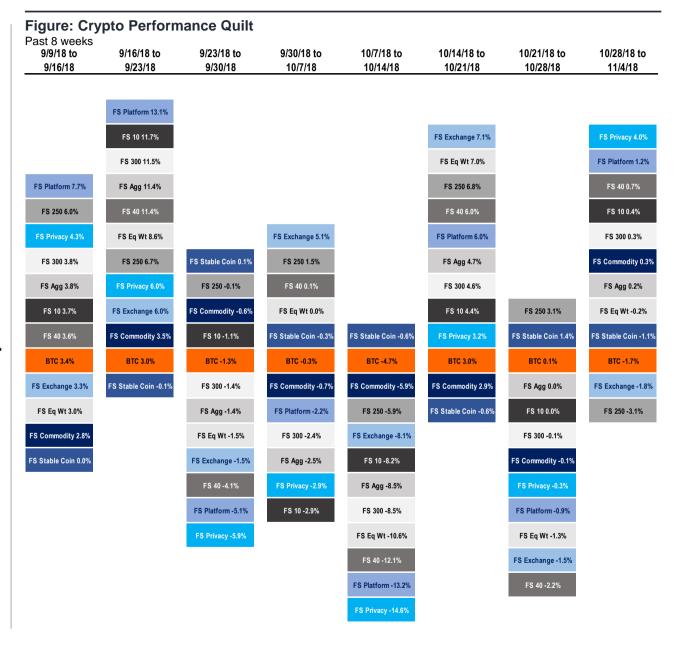
(20)

Overview Performance Quilt

Here we look at the relative performance of our benchmark indices using a performance quilt.

The best performing was FS CryptoFX Privacy Index which was up 4.0%. In the prior week, this index was down 0.3%.

The worst performing was FS CryptoFX 250 Index, which was down 3.1%. In the prior week, this index was up 3.1%.



Source: Fundstrat, Bloomberg.

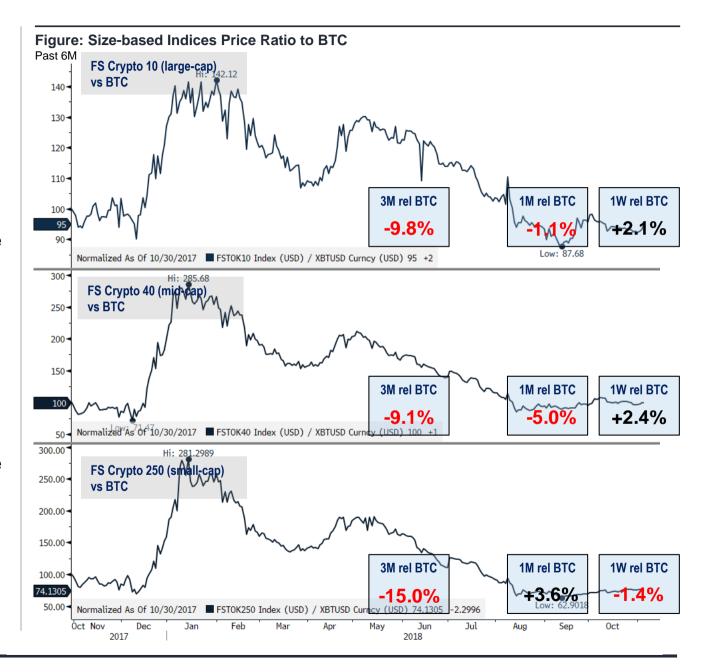


SIZE Indices vs BTC

The 6M price performance of the size-weighted indices are plotted.

Over the past week, the best performing of the size indices was FS CryptoFX 40 which was up 2.4%. The worst performing over that timeframe was FS CryptoFX 250 which was down 1.4%.

Over the past month, the best performing of the size indices was FS CryptoFX 250 which was up 3.6%. The worst performing over that timeframe was FS CryptoFX 40 which was down 5.0%.



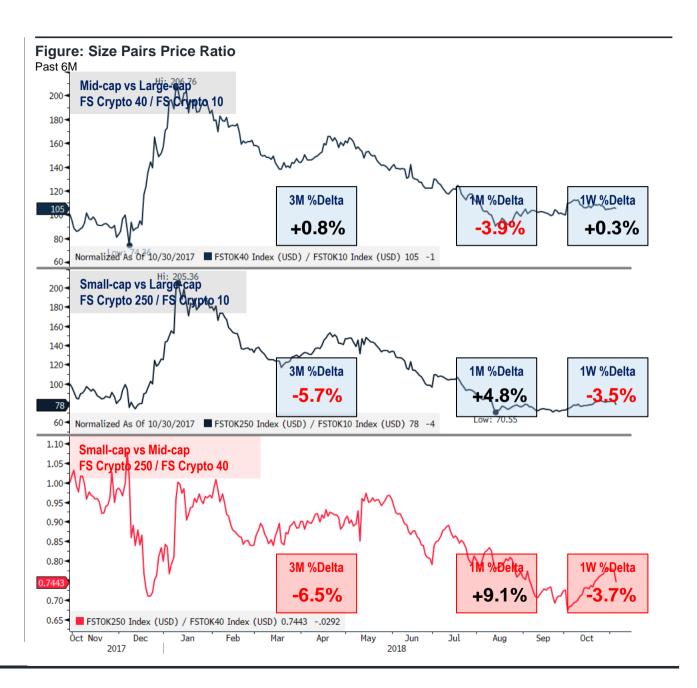


Size Rotation Size Pairs

Over the past week, relative performance of mid-cap vs large-cap was up 0.3%.

Over the past week, relative performance of small-cap vs large-cap was down 3.5%.

Over the past week, relative performance of small-cap vs mid-cap was down 3.7%.



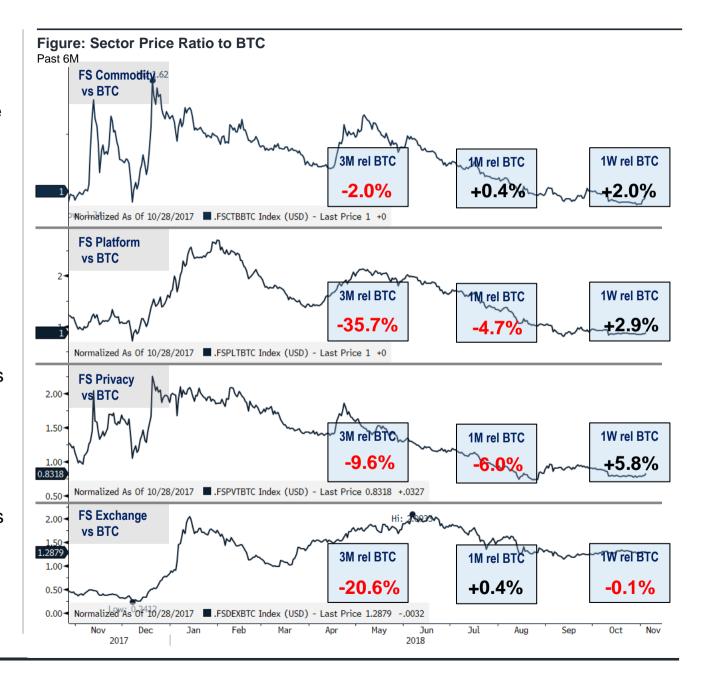


Sectors Sectors vs BTC

The 6M price performance of the sector indices are plotted.

Over the past week, the best performing of the sector indices was FS Privacy Index which was up 5.8%. The worst performing over that timeframe was FS Exchange Index which was down 0.1%.

Over the past month, the best performing of the sector indices was FS Exchange Index which was up 0.4%. The worst performing over that timeframe was FS Privacy Index which was down 6.0%.



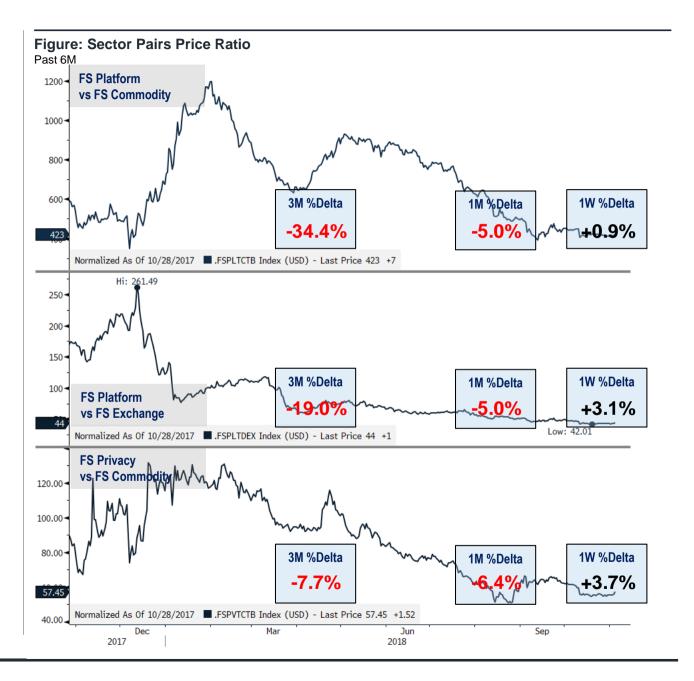


Sector Rotation Sector Pairs

Over the past week, relative performance of Platforms vs Commodities was up 0.9%.

Over the past week, relative performance of Platforms vs Exchanges was up 3.1%.

Over the past week, relative performance of Privacy vs Commodities was up 3.7%.

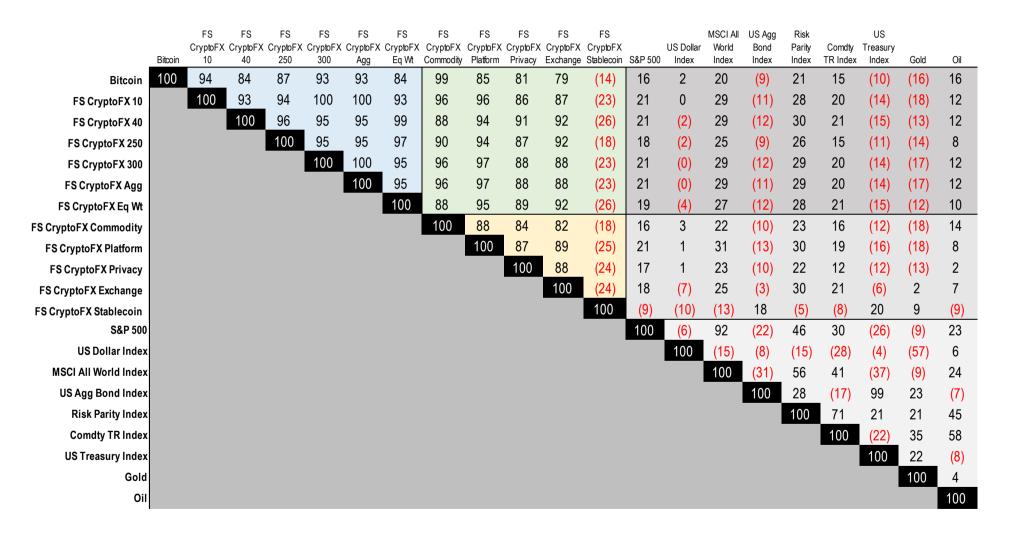




Cross Asset Classes Correlation Matrix

Figure: FS Crypto FX Indices Correlation Matrix against Major Asset Classes (%)

Based on the daily return of last 90 days



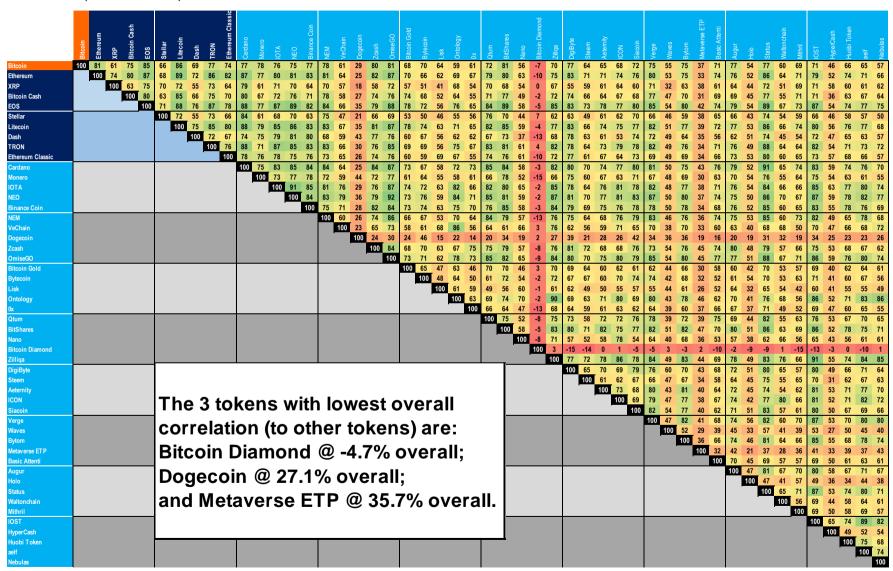
Source: Coinmarketcap.com, Bloomberg, other sources and Fundstrat



Cross Token Correlation Matrix

Figure: Correlation Matrix (%)

Based on the daily return of last 90 days



Source: Coinmarketcap.com, Bloomberg, other sources and Fundstrat



Executive Summary

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- SECTOR: Privacy
- SECTOR: Stable coins
- Chartbook: FS Large-cap 10 and FS Mid-cap 40



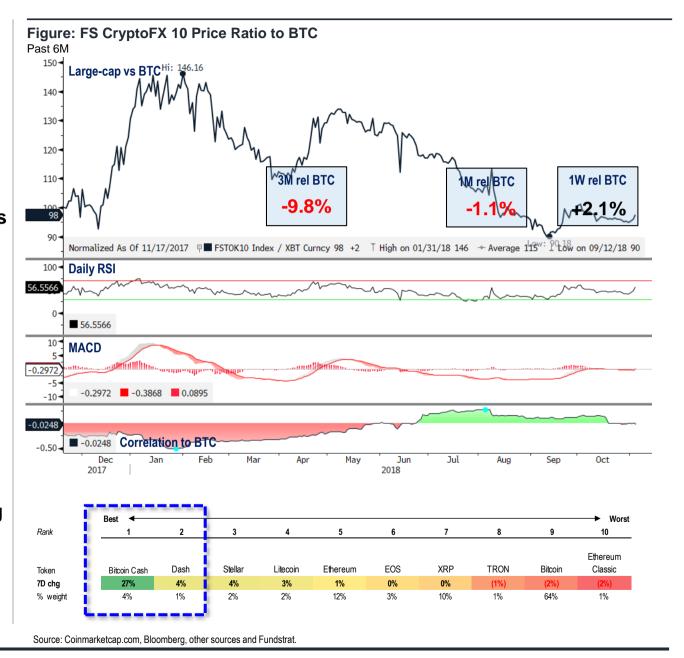
Large-cap FS CryptoFX 10

The FS CryptoFX 10 index is designed to track the performance of the top 10 largest and most liquid Crypto-currencies.

Over the past week, the FS CryptoFX 10 index was up 2.1% Relative to BTC. Over the past month, this index was down 1.1% Relative to BTC.

The two best performing constituents this index in the past week are Bitcoin Cash up 27.0% and Dash up 4.2%.

The two worst performing constituents this index in the past week are Ethereum Classic down 2.5% and Bitcoin down 1.7%





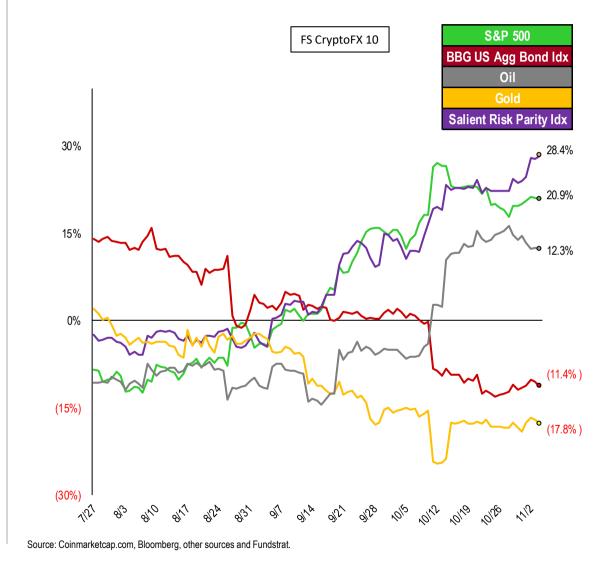
Correlation FS CryptoFX 10

The FS CryptoFX 10 index is designed to track the performance of the top 10 largest and most liquid Crypto-currencies.

The FS CryptoFX 10 Index is most correlated to S&P Risk Parity Index with a 90D correlation of 28.4%.

The FS CryptoFX 10 Index is least correlated to Gold with a 90D correlation of -17.8%.

Figure: 90D Rolling Correlation - FS CryptoFX 10 Correlation against Major Asset Classes
Over last 100 days





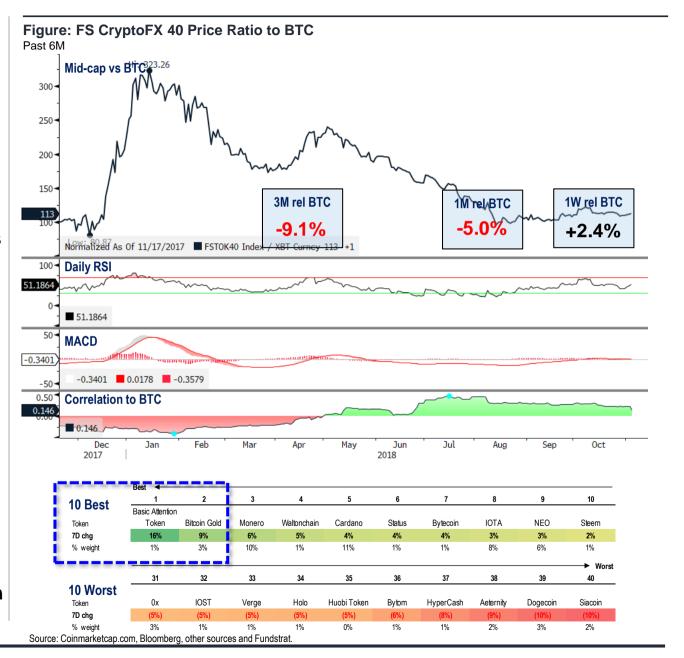
Mid-cap FS CryptoFX 40

The FS CryptoFX 40 index is designed to track the performance of the top 11-50 Crypto-currencies based on market value and liquidity.

Over the past week, the FS CryptoFX 40 index was up 2.4% Relative to BTC. Over the past month, this index was down 5.0% Relative to BTC.

The two best performing constituents this index in the past week are Basic Attention Token up 15.8% and Bitcoin Gold up 8.7%.

The two worst performing constituents this index in the past week are Siacoin down 10.2% and Dogecoin down 9.5%





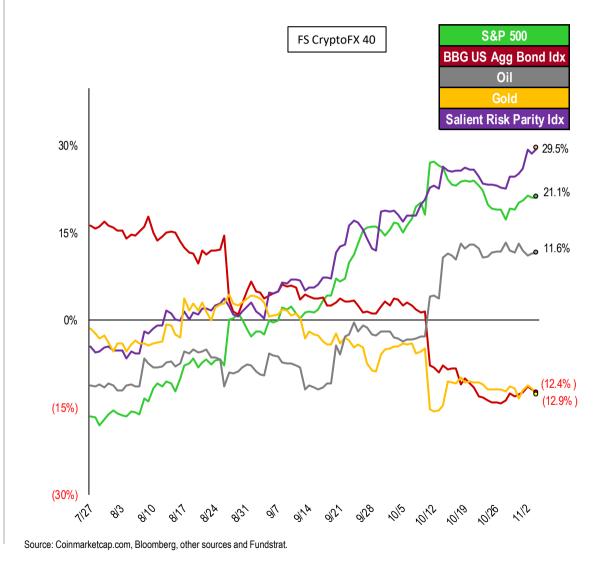
Correlation FS CryptoFX 40

The FS CryptoFX 40 index is designed to track the performance of the top 11-50 Crypto-currencies based on market value and liquidity.

The FS CryptoFX 40 Index is most correlated to S&P Risk Parity Index with a 90D correlation of 29.5%.

The FS CryptoFX 40 Index is least correlated to Gold with a 90D correlation of -12.9%.

Figure: 90D Rolling Correlation - FS CryptoFX 40 Correlation against Major Asset Classes
Over last 100 days





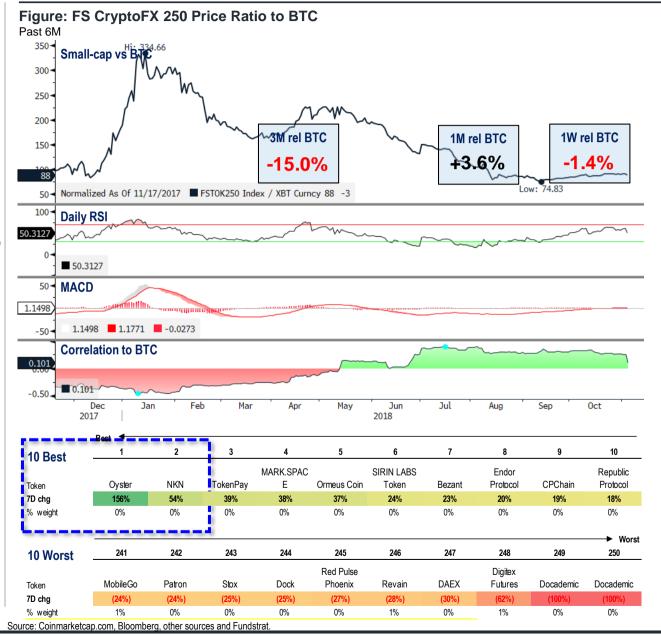
Small-cap FS CryptoFX 250

The FS CryptoFX 250 index is designed to track the performance of the top 51-300 Crypto-currencies based on market value and liquidity.

Over the past week, the FS CryptoFX 250 index was down 1.4% Relative to BTC. Over the past month, this index was up 3.6% Relative to BTC.

The two best performing constituents this index in the past week are Oyster up 156.0% and NKN up 54.4%.

The two worst performing constituents this index in the past week are Docademic down 100.0% and Docademic down 100.0%





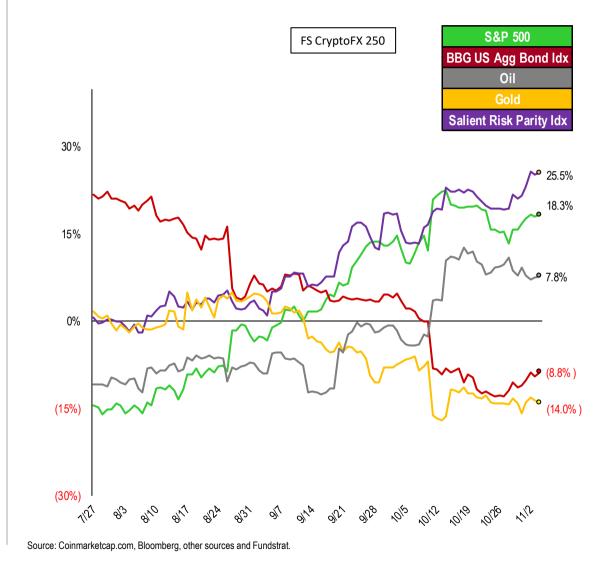
Correlation FS CryptoFX 250

The FS CryptoFX 250 index is designed to track the performance of the top 51-300 Crypto-currencies based on market value and liquidity.

The FS CryptoFX 250 Index is most correlated to S&P Risk Parity Index with a 90D correlation of 25.5%.

The FS CryptoFX 250 Index is least correlated to Gold with a 90D correlation of -14.0%.

Figure: 90D Rolling Correlation - FS CryptoFX 250 Correlation against Major Asset Classes
Over last 100 days





Executive Summary

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- SECTOR: Privacy
- SECTOR: Stable coins
- Chartbook: FS Large-cap 10 and FS Mid-cap 40



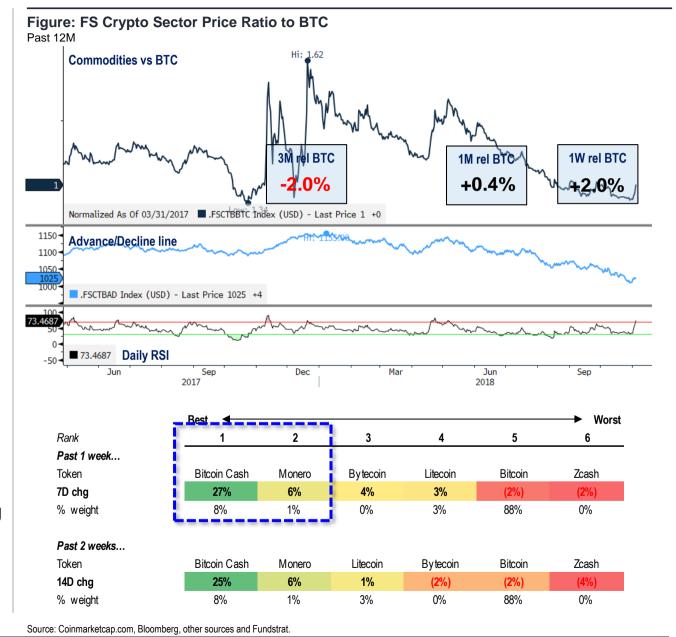
Sectors Commodity

The FS CryptoFX Commodity index is designed to track the performance of the tokens which are viewed purely as digital currencies and/or commodities.

Over the past week, the FS CryptoFX Commodity index was up 2.0% Relative to BTC. Over the past month, this index was up 0.4% Relative to BTC.

The two best performing constituents this index in the past week are Bitcoin Cash up 27.0% and Monero up 6.5%.

The two worst performing constituents this index in the past week are Bitcoin down 1.7% and Litecoin up 3.2%





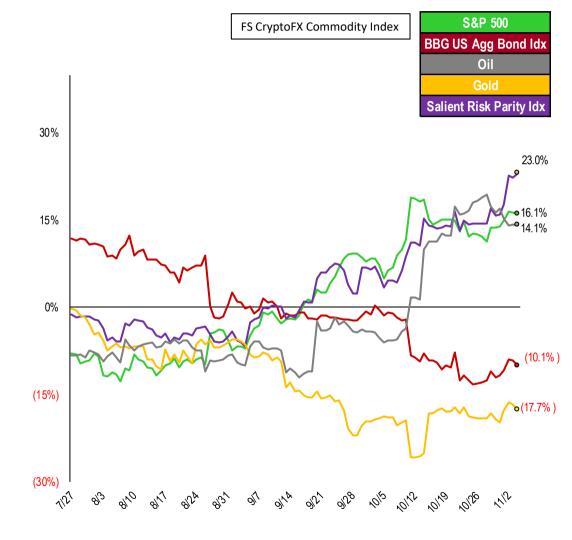
Correlation FS Commodity

The FS CryptoFX Commodity index is designed to track the performance of the tokens which are viewed purely as digital currencies and/or commodities.

The FS Commodity Index is most correlated to S&P Risk Parity Index with a 90D correlation of 23.0%.

The FS Commodity Index is least correlated to Gold with a 90D correlation of -17.7%.

Figure: 90D Rolling Correlation - Commodity Correlation against Major Asset Classes
Over last 100 days



Source: Coinmarketcap.com, Bloomberg, other sources and Fundstrat.



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- Chartbook: FS Large-cap 10 and FS Mid-cap 40



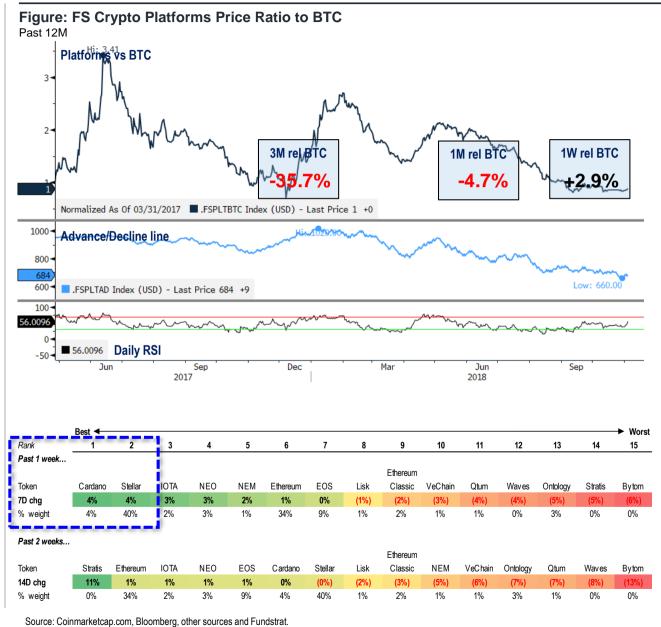
Sectors Platforms

The FS Crypto Platform index is designed to track the performance of cryptocurrencies which enable developers to create and use decentralized applications (dApps).

Over the past week, the FS CryptoFX Platform index was up 2.9% Relative to BTC. Over the past month, this index was down 4.7% Relative to BTC.

The two best performing constituents this index in the past week are Cardano up 4.2% and Stellar up 3.8%.

The two worst performing constituents this index in the past week are Waves down 8.1% and Qtum down 6.9%



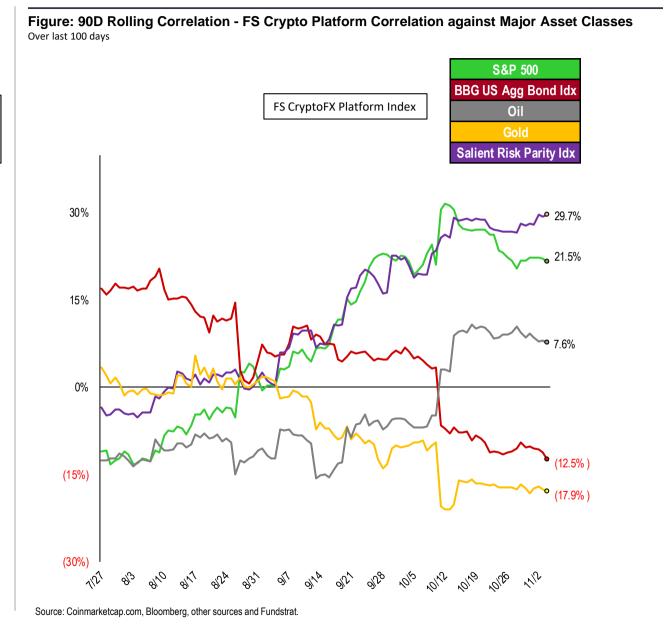


Correlation FS Platform

The FS Crypto Platform index is designed to track the performance of cryptocurrencies which enable developers to create and use decentralized applications (dApps).

The FS Platform Index is most correlated to S&P Risk Parity Index with a 90D correlation of 29.7%.

The FS Platform Index is least correlated to Gold with a 90D correlation of -17.9%.





Executive Summary

- Overview
- SIZE: FS Large-cap 10, FS Mid-cap 40, FS small-cap 250
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- SECTOR: Privacy
- SECTOR: Stable coins
- Chartbook: FS Large-cap 10 and FS Mid-cap 40



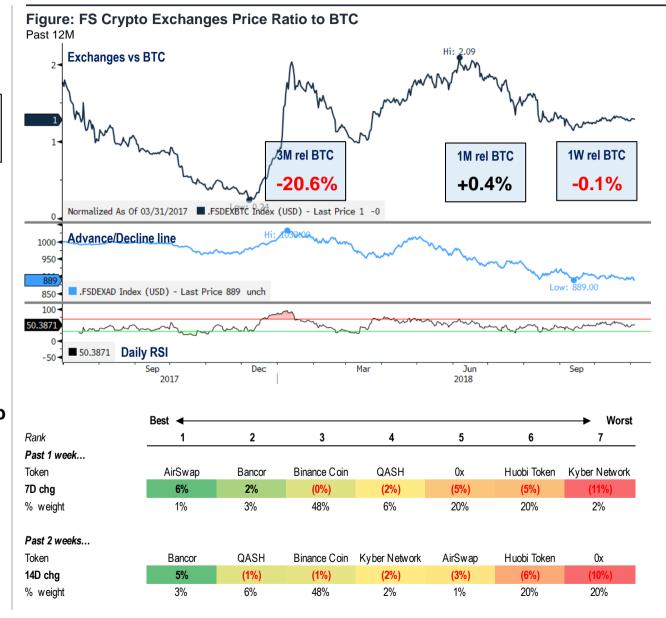
Sectors Exchanges

The FS Crypto Exchange index is designed to track the performance of cryptocurrencies/ tokens associated with crypto centralized or decentralized exchanges.

Over the past week, the FS CryptoFX Exchange index was down 0.1% Relative to BTC. Over the past month, this index was up 0.4% Relative to BTC.

The two best performing constituents this index in the past week are AirSwap up 5.9% and Bancor up 2.3%.

The two worst performing constituents this index in the past week are Huobi Token down 5.0% and 0x down 4.6%



Source: Coinmarketcap.com, Bloomberg, other sources and Fundstrat.



Correlation FS Exchange

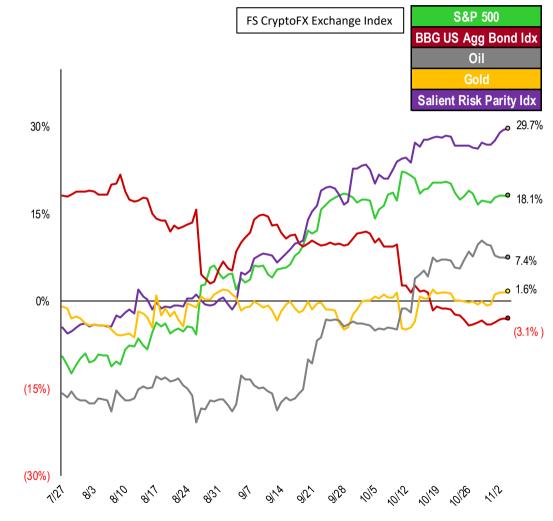
The FS Crypto Exchange index is designed to track the performance of cryptocurrencies/ tokens associated with crypto centralized or decentralized exchanges.

The FS Exchange Index is most correlated to S&P Risk Parity Index with a 90D correlation of 29.7%.

The FS Exchange Index is least correlated to BBG US Agg Bond Index with a 90D correlation of - 3.1%.

Figure: 90D Rolling Correlation - FS Crypto Exchange Correlation against Major Asset Classes

Over last 100 days







Executive Summary

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- SIZE: FS Large-cap 10, FS Mid-cap 40, FS small-cap 250
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- SECTOR: Privacy
- SECTOR: Stable coins
- Chartbook: FS Large-cap 10 and FS Mid-cap 40

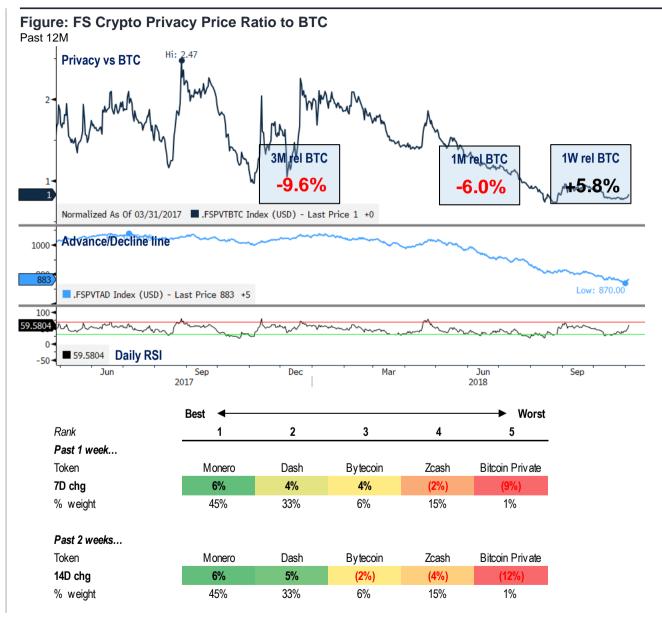
Sectors Privacy

The FS Crypto Privacy index is designed to track the performance of cryptocurrencies with anonymity or privacy features.

Over the past week, the FS CryptoFX Privacy index was up 5.8% Relative to BTC. Over the past month, this index was down 6.0% Relative to BTC.

The two best performing constituents this index in the past week are Monero up 6.5% and Dash up 4.2%.

The two worst performing constituents this index in the past week are Zcash down 2.4% and Bytecoin up 3.7%



Source: Coinmarketcap.com, Bloomberg, other sources and Fundstrat.



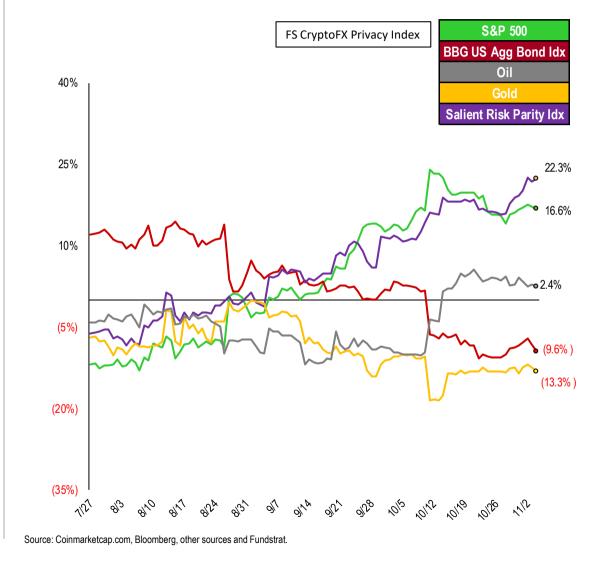
Correlation FS Privacy

The FS Crypto Privacy index is designed to track the performance of cryptocurrencies with anonymity or privacy features.

The FS Privacy Index is most correlated to S&P Risk Parity Index with a 90D correlation of 22.3%.

The FS Privacy Index is least correlated to Gold with a 90D correlation of -13.3%.

Figure: 90D Rolling Correlation - FS Crypto Privacy Correlation against Major Asset Classes
Over last 100 days





Executive Summary

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- SECTOR: Commodities
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- SECTOR: Exchanges
- SECTOR: Privacy
- SECTOR: Stable coins
- Chartbook: FS Large-cap 10 and FS Mid-cap 40

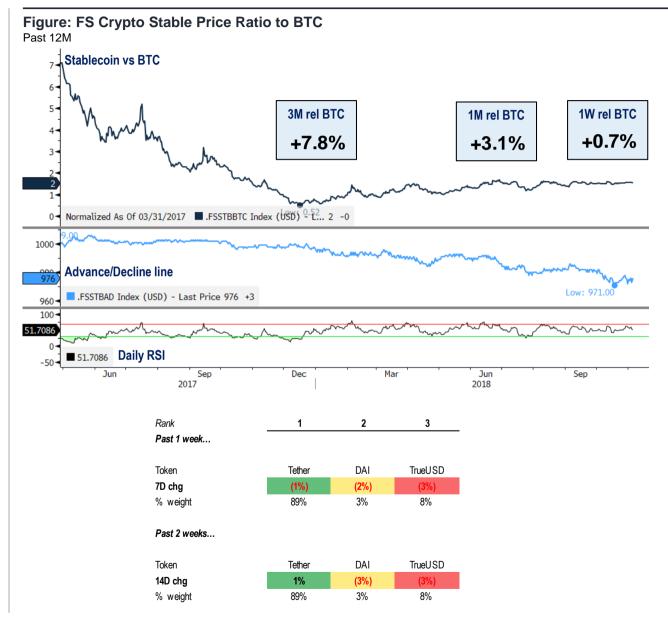


Sectors Stable Coins

The FS CryptoFX Stable index is designed to track the performance of cryptocurrencies which are designed to be "stable".

Over the past week, the FS CryptoFX Stable Coin index was up 0.7% Relative to BTC. Over the past month, this index was up 3.1% Relative to BTC.

In the past week, Tether was down 1.0% and DAI was down 2.1%, in dollar terms.



Source: Coinmarketcap.com, Bloomberg, other sources and Fundstrat.



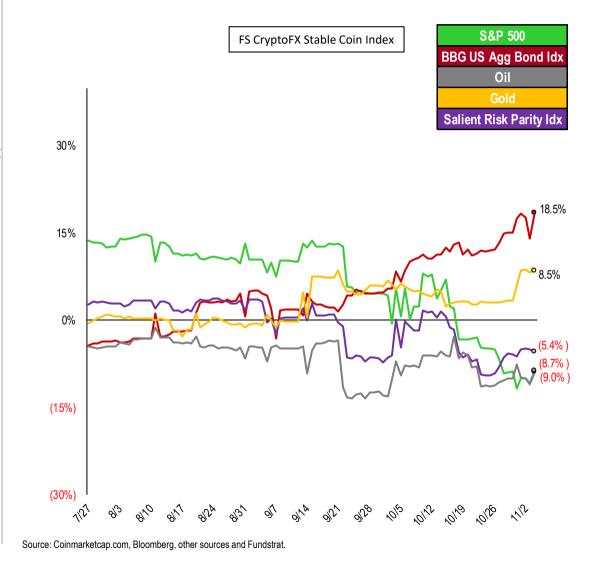
Correlation FS Stable Coin

The FS CryptoFX Stable index is designed to track the performance of cryptocurrencies which are designed to be "stable".

The FS Stable Coin Index is most correlated to BBG US Agg Bond Index with a 90D correlation of 18.5%.

The FS Stable Coin Index is least correlated to S&P 500 with a 90D correlation of -9.0%.

Figure: 90D Rolling Correlation - FS Crypto Stable Correlation against Major Asset Classes
Over last 100 days





Executive Summary

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- SECTOR: Exchanges
- SECTOR: Privacy
- SECTOR: Stable coins
- Chartbook: FS Large-cap 10 and FS Mid-cap 40

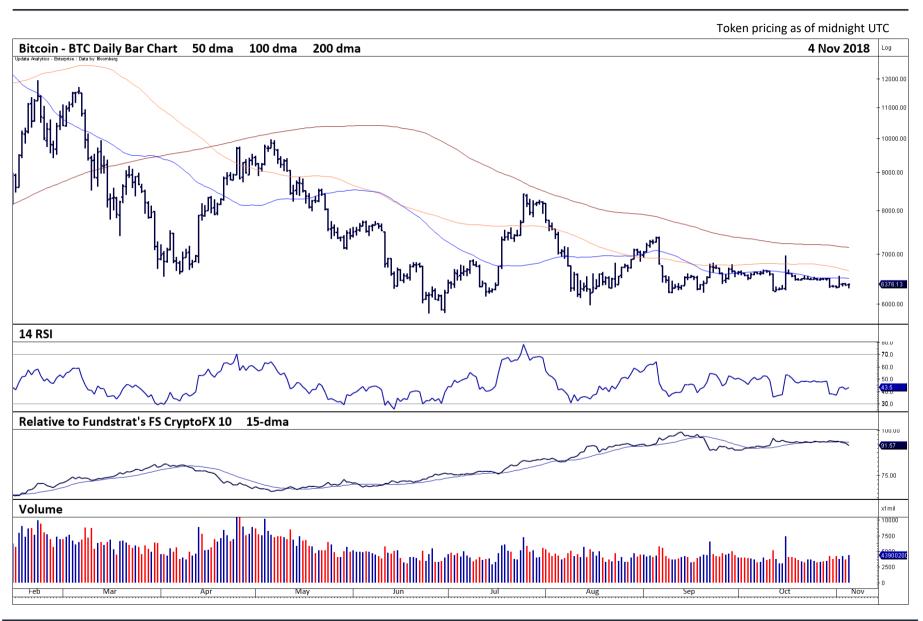
Technical Charts

FS CryptoFX 10 Index Component Coin Charts

FS CryptoFX 40 Index Component Coin Charts

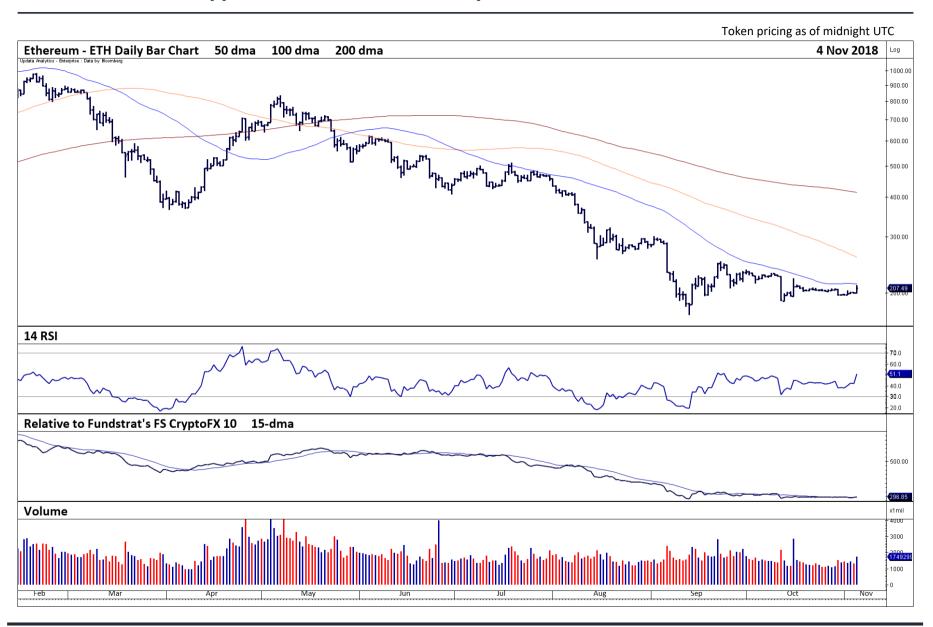


TECHNICAL: FS Crypto FX 10 Index Currency Charts - Bitcoin





TECHNICAL: FS Crypto FX 10 Index Currency Charts - Ethereum





TECHNICAL: FS Crypto FX 10 Index Currency Charts - XRP





TECHNICAL: FS Crypto FX 10 Index Currency Charts - Bitcoin Cash



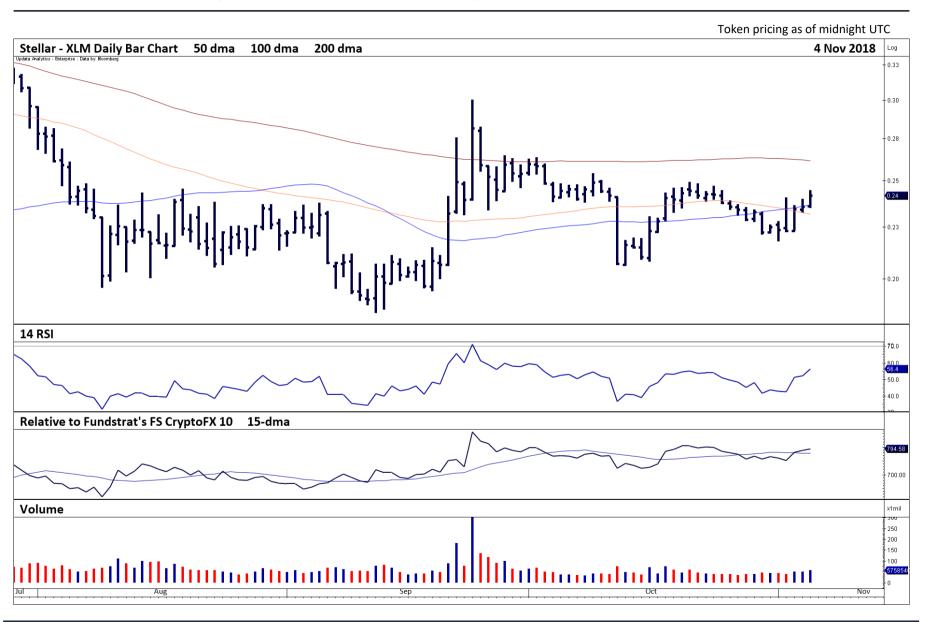


TECHNICAL: FS Crypto FX 10 Index Currency Charts - EOS





TECHNICAL: FS Crypto FX 10 Index Currency Charts - Stellar



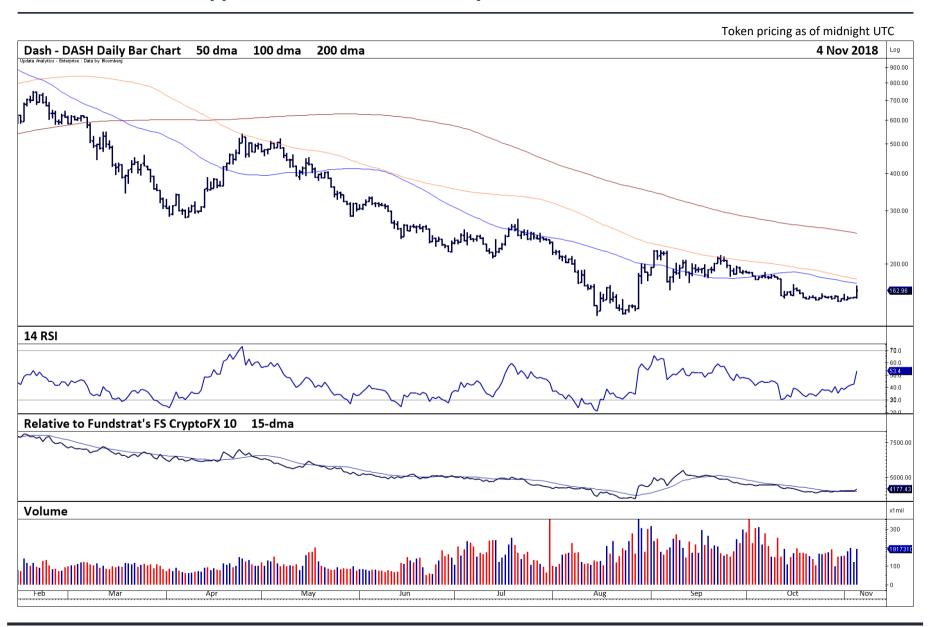


TECHNICAL: FS Crypto FX 10 Index Currency Charts - Litecoin





TECHNICAL: FS Crypto FX 10 Index Currency Charts - Dash



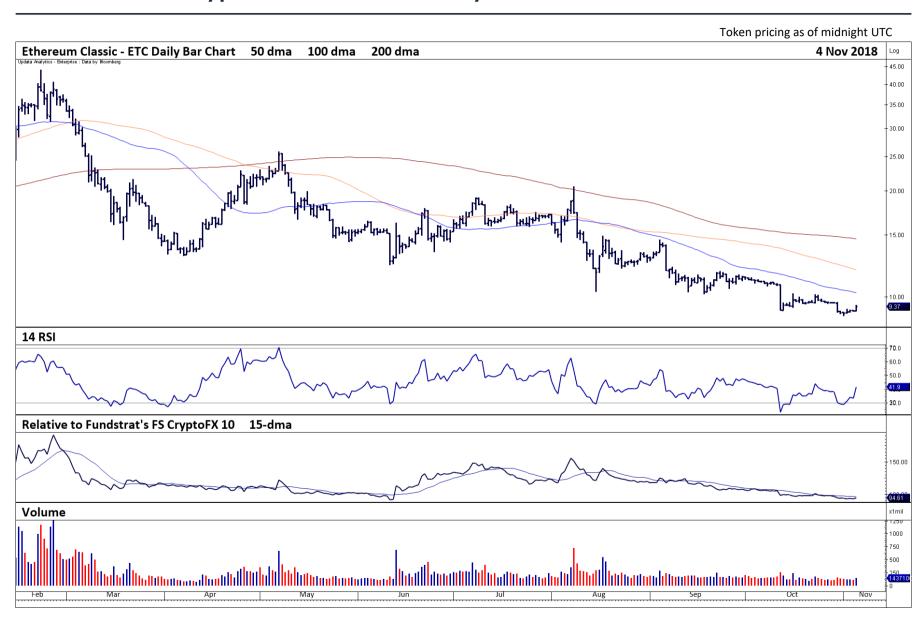


TECHNICAL: FS Crypto FX 10 Index Currency Charts - TRON





TECHNICAL: FS Crypto FX 10 Index Currency Charts - Ethereum Classic





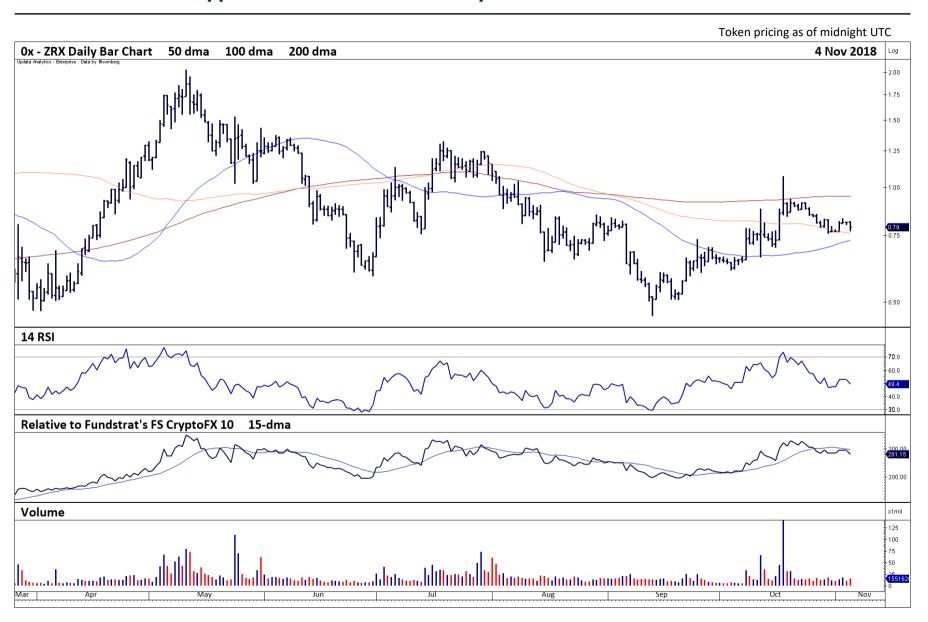
Technical Charts

FS CryptoFX 10 Index Component Coin Charts

FS CryptoFX 40 Index Component Coin Charts



TECHNICAL: FS Crypto FX 40 Index Currency Charts - Ox





TECHNICAL: FS Crypto FX 40 Index Currency Charts - aelf





TECHNICAL: FS Crypto FX 40 Index Currency Charts - Aeternity





TECHNICAL: FS Crypto FX 40 Index Currency Charts - Augur



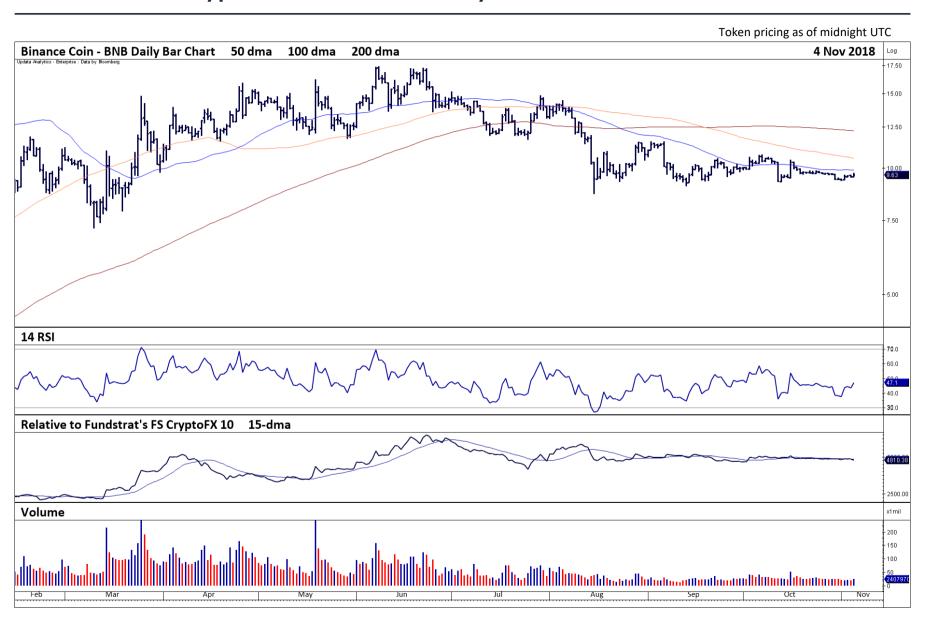


TECHNICAL: FS Crypto FX 40 Index Currency Charts – Basic Attention





TECHNICAL: FS Crypto FX 40 Index Currency Charts - Binance Coin





TECHNICAL: FS Crypto FX 40 Index Currency Charts - Bitcoin Diamond





TECHNICAL: FS Crypto FX 40 Index Currency Charts - Bitcoin Gold



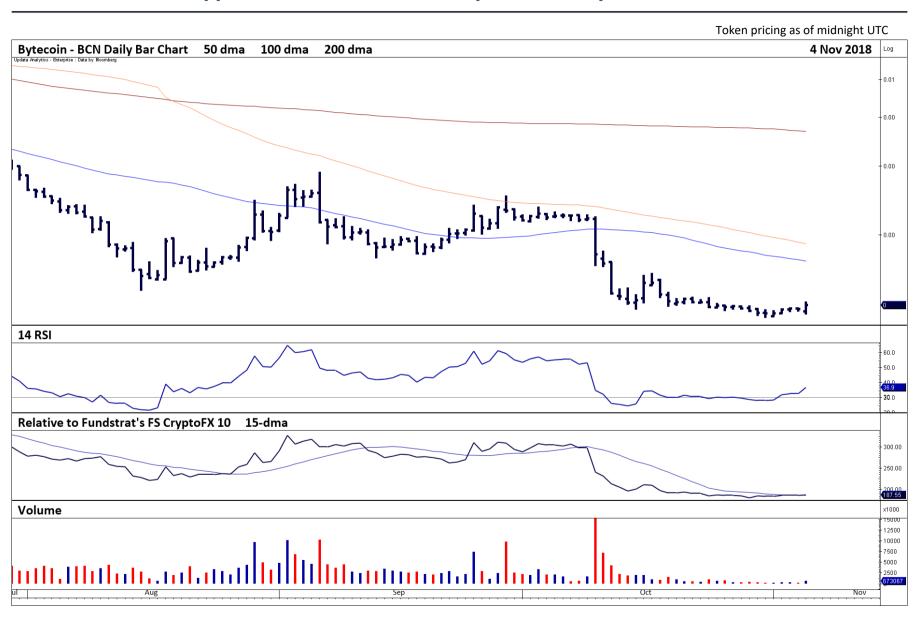


TECHNICAL: FS Crypto FX 40 Index Currency Charts - BitShares





TECHNICAL: FS Crypto FX 40 Index Currency Charts - Bytecoin





TECHNICAL: FS Crypto FX 40 Index Currency Charts - Bytom



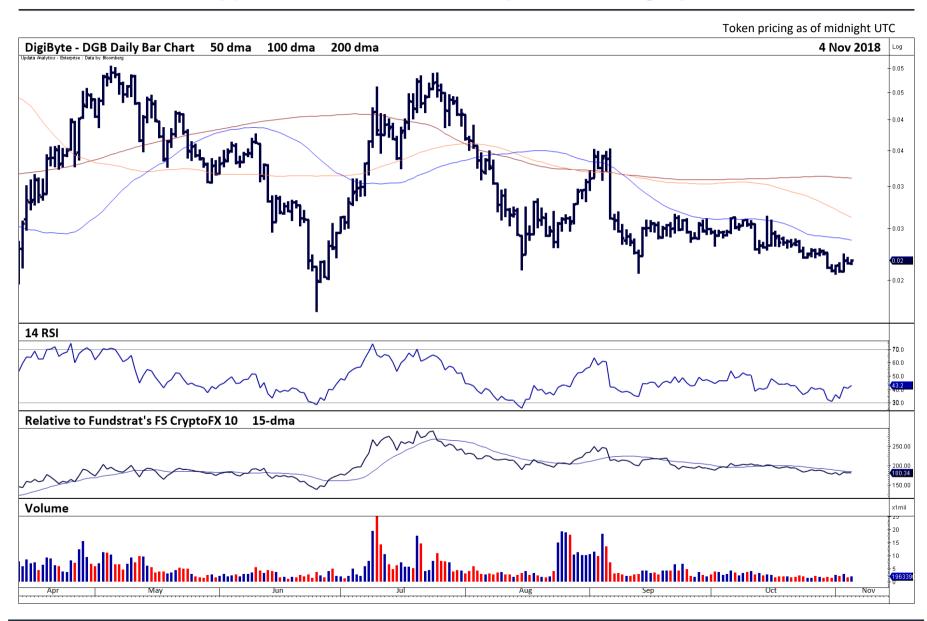


TECHNICAL: FS Crypto FX 40 Index Currency Charts - Cardano





TECHNICAL: FS Crypto FX 40 Index Currency Charts - DigiByte



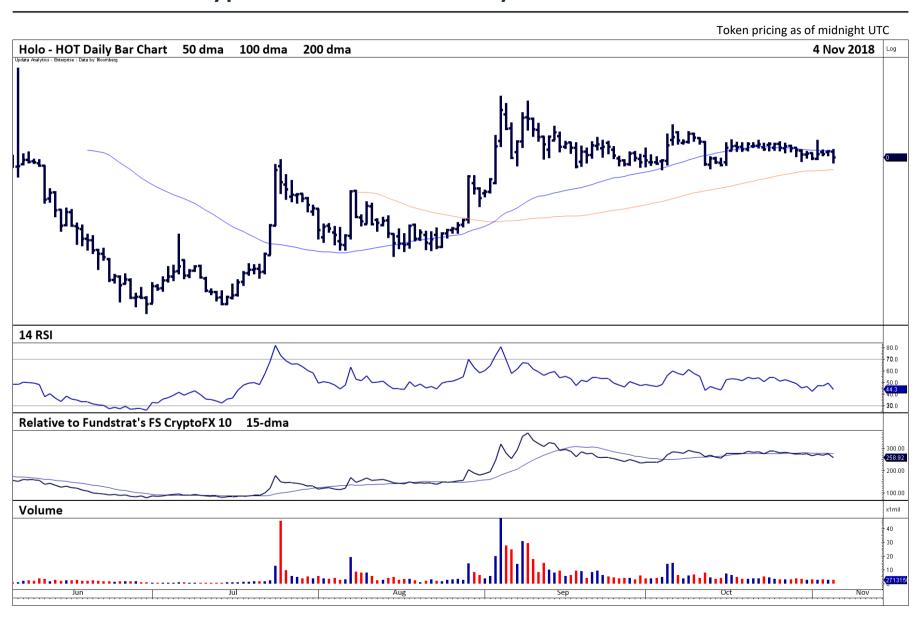


TECHNICAL: FS Crypto FX 40 Index Currency Charts - Dogecoin



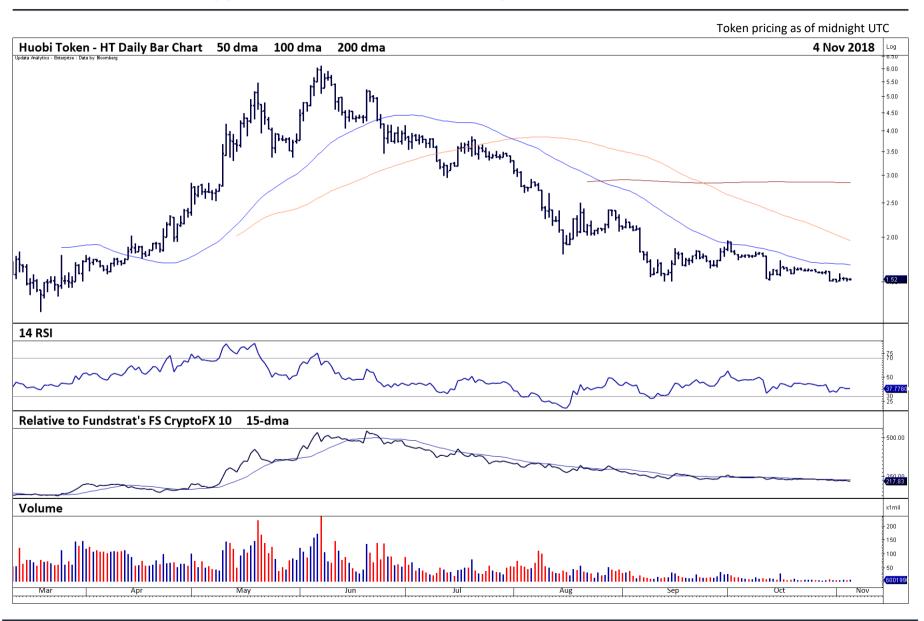


TECHNICAL: FS Crypto FX 40 Index Currency Charts - Holo





TECHNICAL: FS Crypto FX 40 Index Currency Charts - Huobi Token





TECHNICAL: FS Crypto FX 40 Index Currency Charts - Hypercash





TECHNICAL: FS Crypto FX 40 Index Currency Charts - Icon



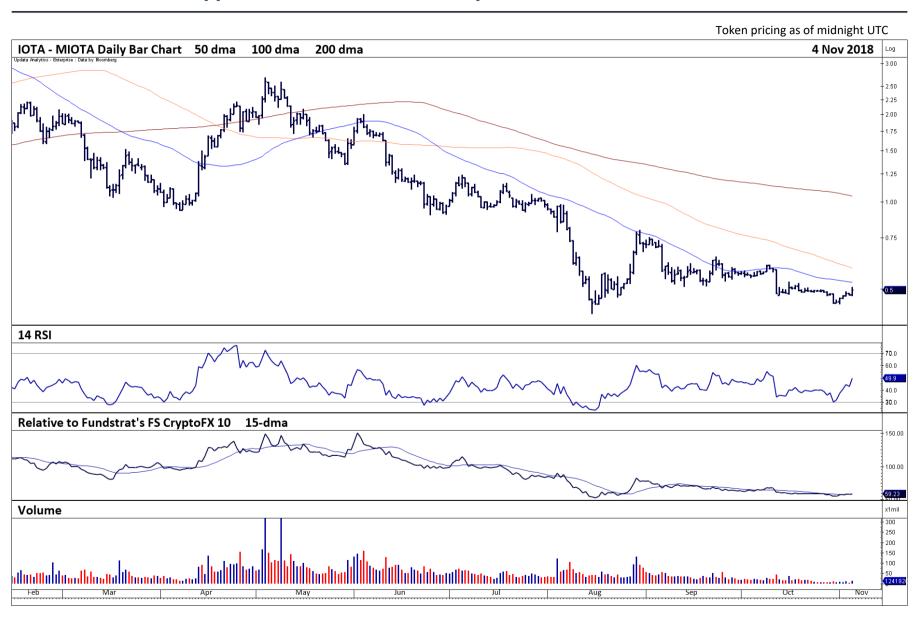


TECHNICAL: FS Crypto FX 40 Index Currency Charts - IOST





TECHNICAL: FS Crypto FX 40 Index Currency Charts - IOTA



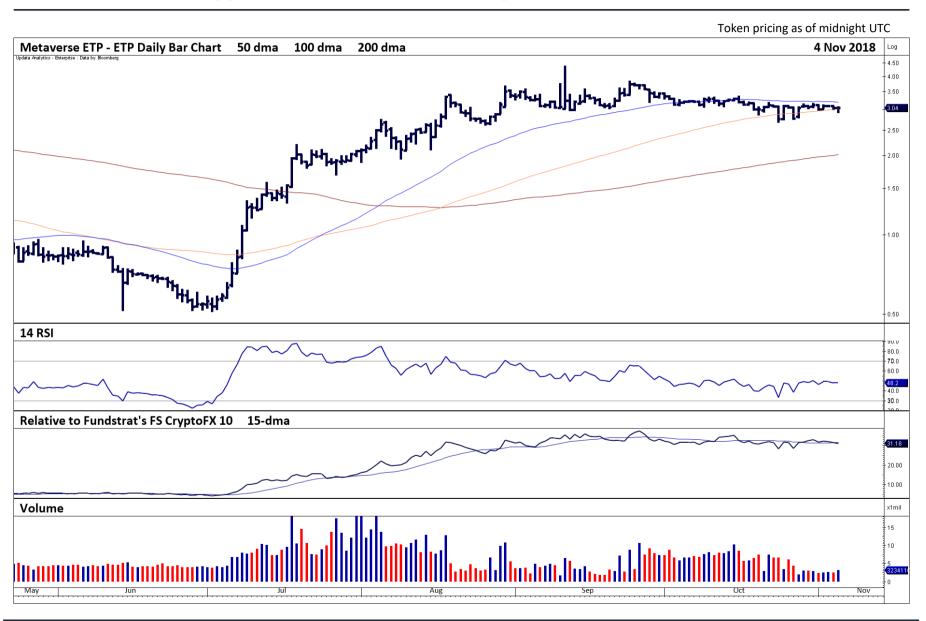


TECHNICAL: FS Crypto FX 40 Index Currency Charts - Lisk



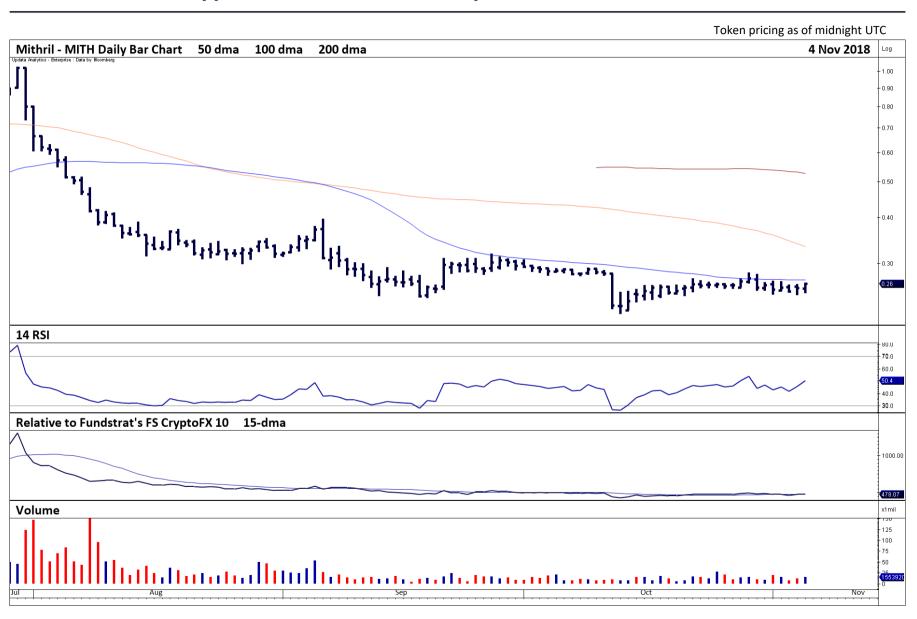


TECHNICAL: FS Crypto FX 40 Index Currency Charts - Metaverse





TECHNICAL: FS Crypto FX 40 Index Currency Charts - Mithril





TECHNICAL: FS Crypto FX 40 Index Currency Charts - Monero





TECHNICAL: FS Crypto FX 40 Index Currency Charts - Nano





TECHNICAL: FS Crypto FX 40 Index Currency Charts - Nebulas





TECHNICAL: FS Crypto FX 40 Index Currency Charts - NEM





TECHNICAL: FS Crypto FX 40 Index Currency Charts - NEO



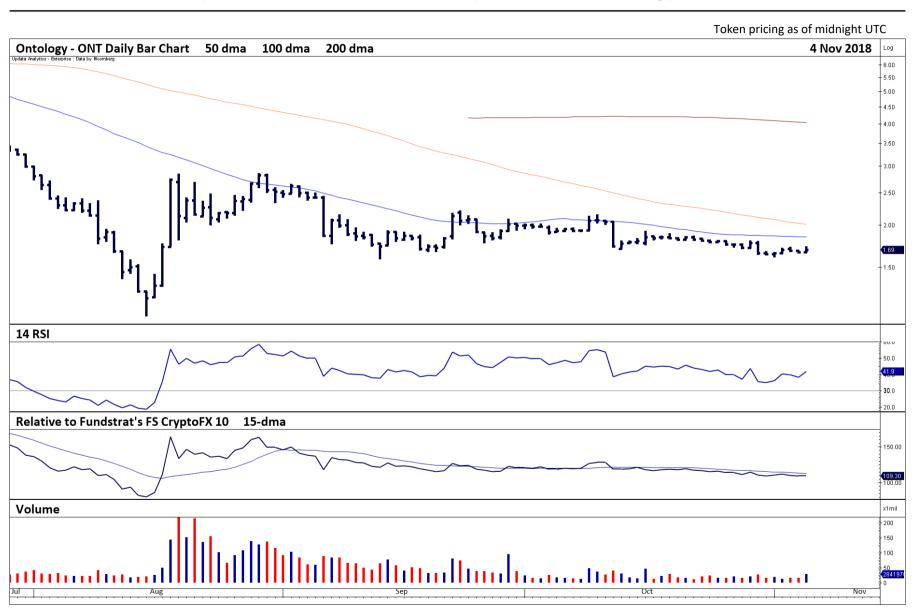


TECHNICAL: FS Crypto FX 40 Index Currency Charts - OmiseGo





TECHNICAL: FS Crypto FX 40 Index Currency Charts - Ontology





TECHNICAL: FS Crypto FX 40 Index Currency Charts - Qtum





TECHNICAL: FS Crypto FX 40 Index Currency Charts - Siacoin



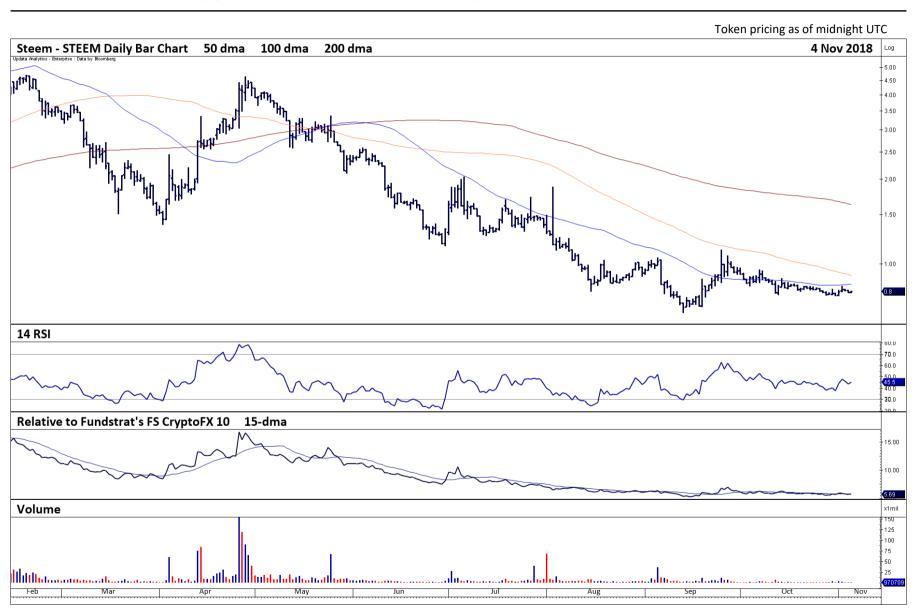


TECHNICAL: FS Crypto FX 40 Index Currency Charts - Status



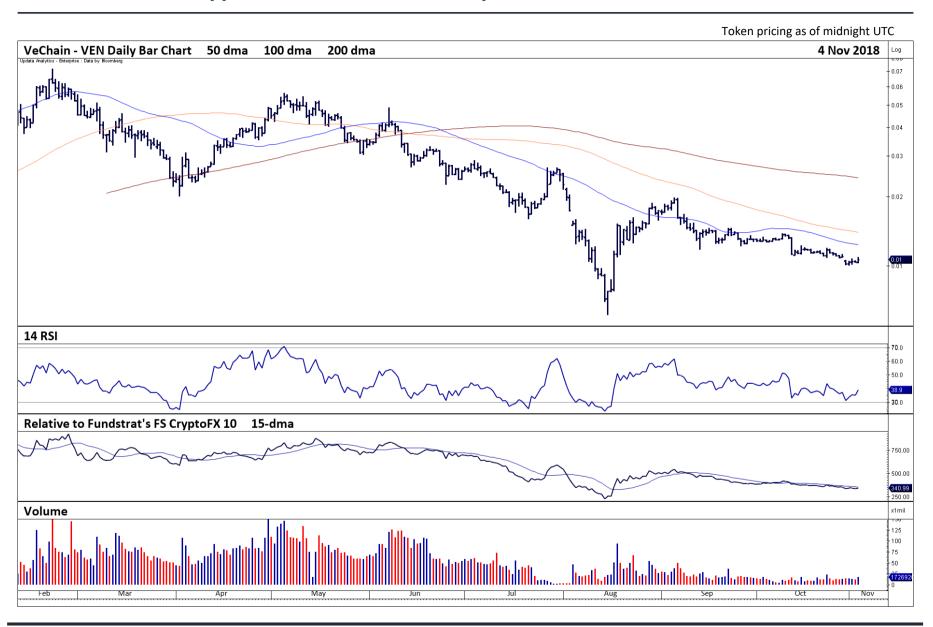


TECHNICAL: FS Crypto FX 40 Index Currency Charts - Steem





TECHNICAL: FS Crypto FX 40 Index Currency Charts - VeChain



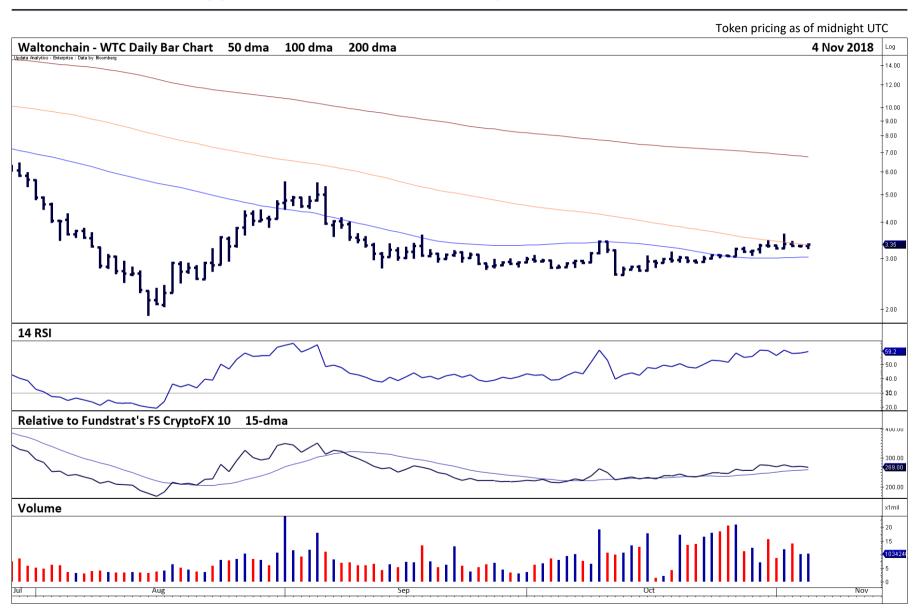


TECHNICAL: FS Crypto FX 40 Index Currency Charts - Verge





TECHNICAL: FS Crypto FX 40 Index Currency Charts - Waltonchain



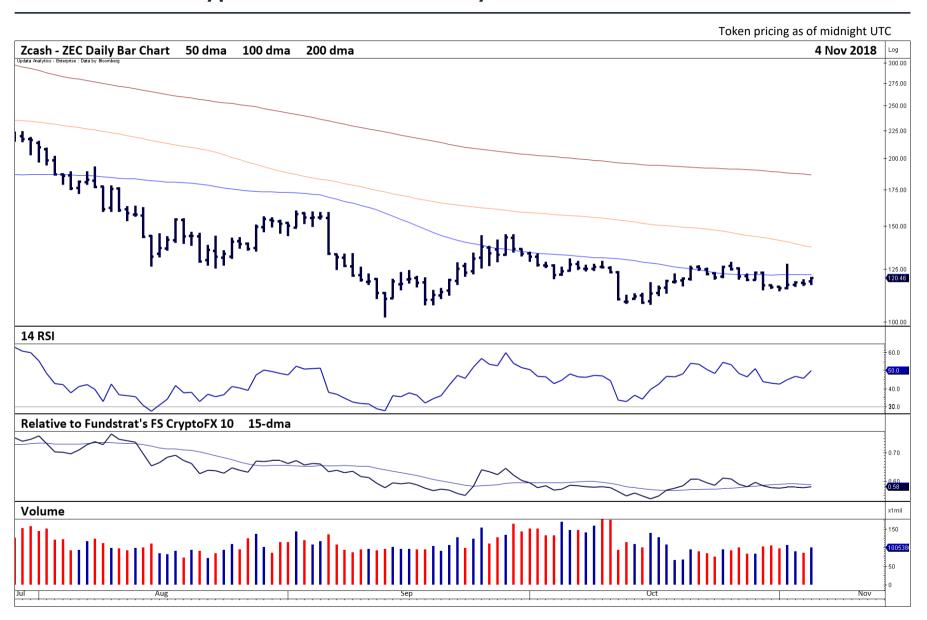


TECHNICAL: FS Crypto FX 40 Index Currency Charts - Waves



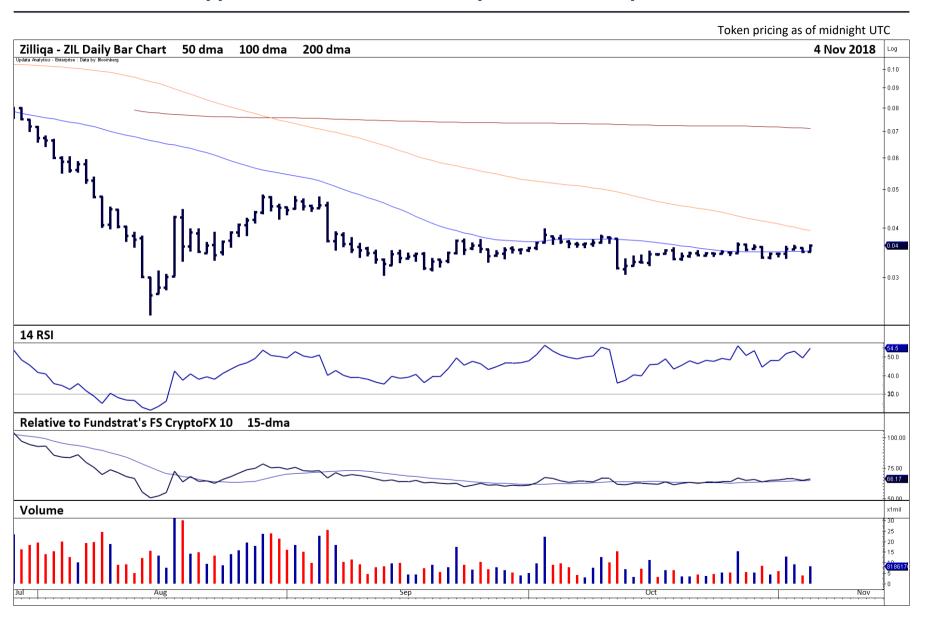


TECHNICAL: FS Crypto FX 40 Index Currency Charts - Zcash





TECHNICAL: FS Crypto FX 40 Index Currency Charts - Zilliqa





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