

3RD QUARTER 2021

# Crypto market

Analytical snapshot

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# Main quarterly outcomes



## Crypto market cap

+39%



## Trading volumes

-38%



## ROI

Bitcoin (BTC):	+27%
Ethereum (ETH):	+34%
Cardano (ADA):	+57%
XRP (XRP):	+37%
Dogecoin (DOGE):	-19%



## Volatility

Bitcoin (BTC):	3,1%
Ethereum (ETH):	4,4%
Cardano (ADA):	7,0%
XRP (XRP):	5,6%
Dogecoin (DOGE):	5,5%



## EXMO trading volumes

Bitcoin (BTC):	-43%
Ethereum (ETH):	-32%
Cardano (ADA):	-39%
XRP (XRP):	-68%
Dogecoin (DOGE):	-92%



# Crypto market overview

	Capitalisation (by the end of the period)			Trading volumes (for the entire period)		Daily trading volumes (median value)		Fear & Greed Index (median value)	
	\$ bln	change compared to the previous period	YTD change	\$ bln	change compared to the previous period	\$ bln	change compared to the previous period	points	change compared to the previous period
July	1 625.9	17.0%	112.2%	2 232.5	-24.4%	66.0	-28.1%	23	-57
August	2 087.8	28.4%	172.5%	3 314.2	48.5%	108.4	64.1%	71	-9
September	1 932.9	-7.4%	152.3%	3 768.8	13.7%	121.6	12.2%	46	-35
Q3	1 932.9	39.1%	152.3%	9 315.5	-38.3%	100.7	-28.1%	48	-29

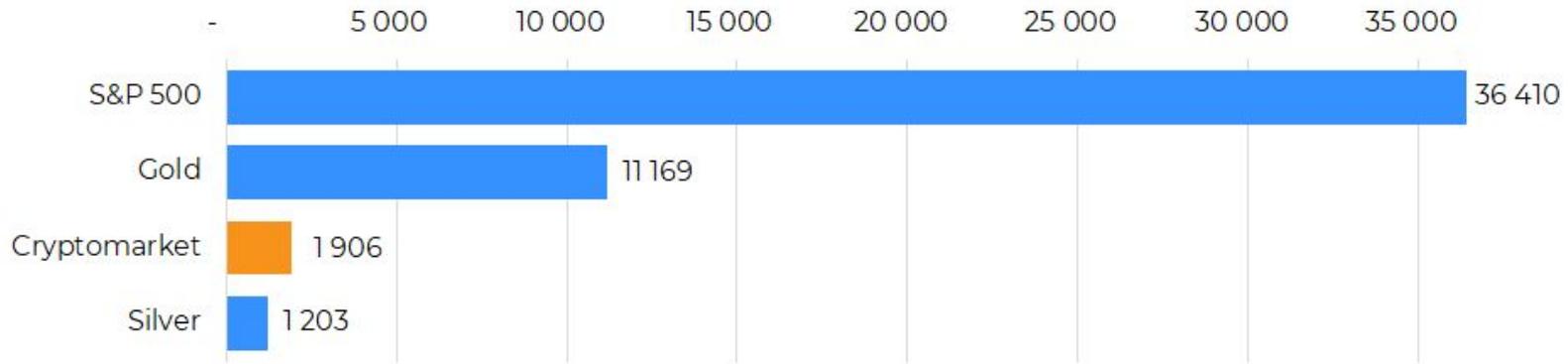
**The cryptocurrency market cap grew by 39% during the last quarter**, despite seeing some dips in September. From the beginning of the year until the end of Q3, the size of the crypto market grew by 152%.

**Trading volumes for the quarter dropped by 38%**, mainly due to the decrease observed in July. However, volumes kept growing during the next two months.

The median value of **the Crypto Fear & Greed Index in the last quarter stood at 48 points, remaining in the "Neutral" zone**. The most negative sentiments were observed in July – 23 points, indicating the value to be in the "Extreme Fear" zone. In September, the index was in the "Neutral" zone due to the marginal positive start seen in the month but dropped to the "Extreme Fear" zone by the end of it.

# Crypto market vs other markets

Crypto market vs other markets, \$ bln

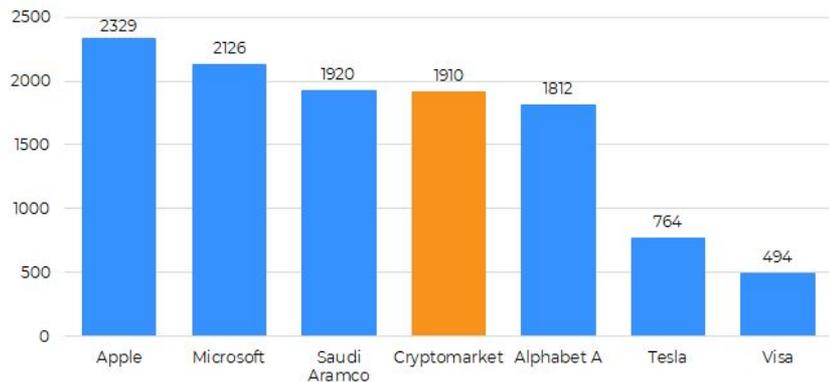


**At the end of the third quarter, the cryptocurrency market cap was just 5.2% of the S&P 500 total market cap.** At the end of the previous quarter, this value was 4%.

When it comes to gold, the crypto market cap equalled 17% of gold's market cap, which is 4% higher compared to the previous quarter. During the third quarter, the crypto market significantly surpassed the silver market in terms of market cap – by as much as 58%. Three months earlier, the difference was only 2.7%, in favour of crypto.

# Crypto market vs public companies

Crypto market vs the largest public companies, \$ bln

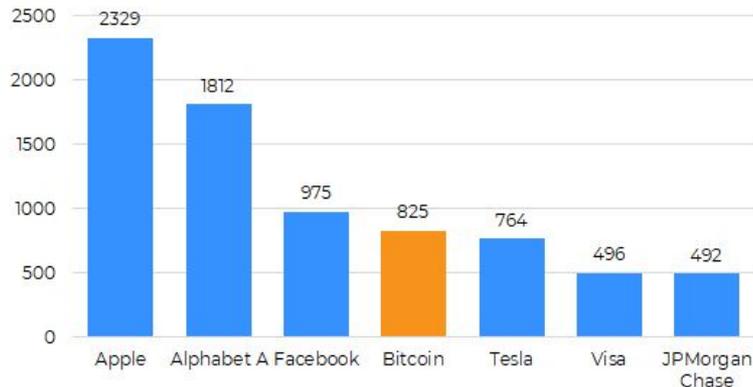


As of the end of the quarter, the crypto market is surpassed only by the three world's largest public companies in terms of market cap. These are Apple, Microsoft and Saudi Aramco.

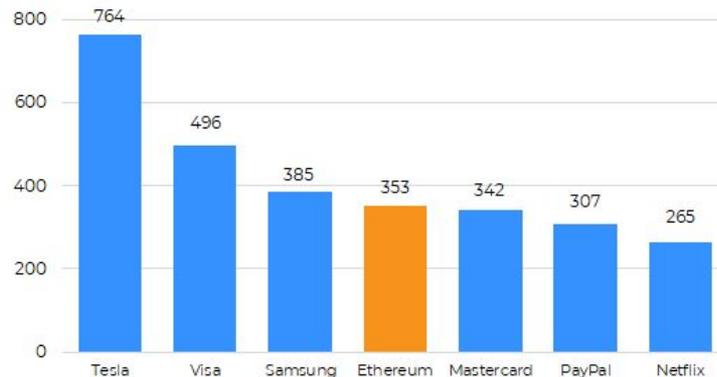
Bitcoin is surpassed by six companies. At the same time, its market cap is almost equal to that of Visa and Mastercard.

Ethereum is surpassed only by Visa out of all payment companies and has nearly the same market cap as Mastercard.

Bitcoin capitalisation vs large companies, \$ bln

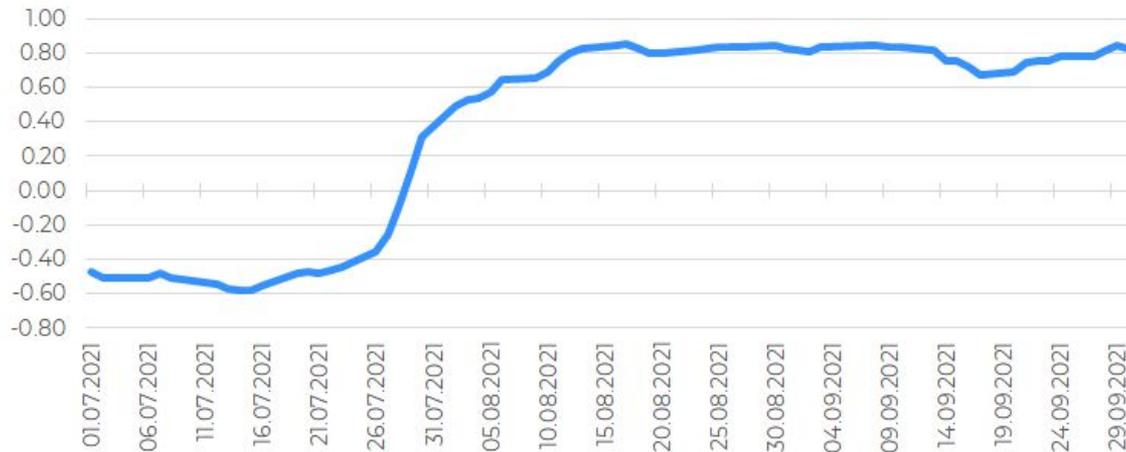


Ethereum capitalisation vs large companies, \$ bln



# Correlation with S&P 500

Correlation dynamics between the crypto market cap and the S&P 500 index



The Pearson correlation coefficient was calculated based on the data from the last 30 days.

If the coefficient is greater than zero, it's a positive relationship – both variables move in the same direction. Conversely, if it is less than zero, the relationship is negative – one variable's value increases while the value of the other one falls.

0 - 0.3 – a very low correlation

0.3 - 0.5 – low

0.5 - 0.7 – moderate

0.7 - 0.9 – high

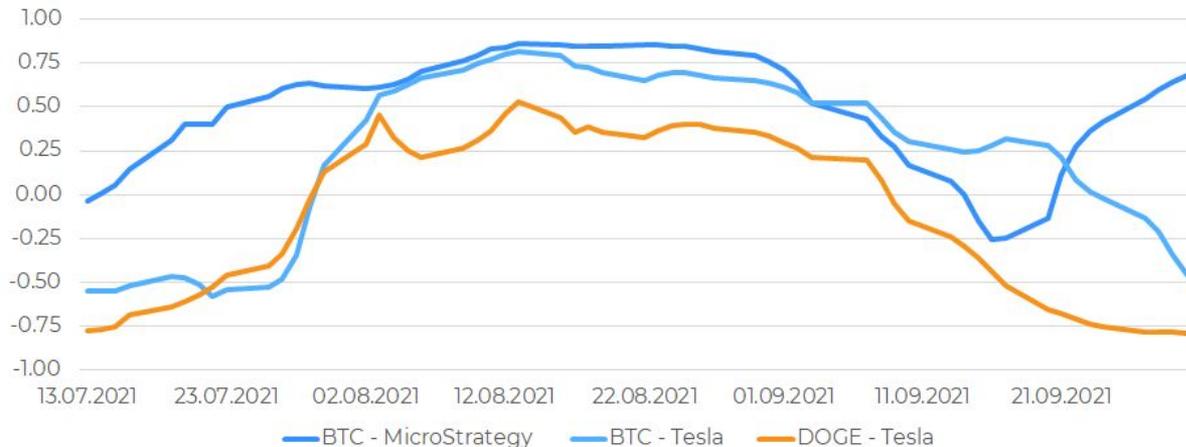
0.9 - 1 – very high

**For most of July, the relationship between the cryptocurrency market cap and the S&P 500 was negative.** Starting from the end of July, the changes in correlation coefficient were observed, and from 10th August to the end of the quarter, there was a strong positive relationship between these two indicators. **The cryptocurrency market was more strongly responding to general economic events.** At the same time, regulatory pressure on the crypto industry kept increasing.

# Correlation with companies holding BTC

**There was no constant correlation between bitcoin's price and the MicroStrategy stock price.** The correlation kept growing during the entire month of July and was relatively high at the beginning of August. However, in the second half of the month, it started weakening, despite the fact that MicroStrategy reported on the purchase of an additional 3,907 BTC on 24th August. For the third quarter, the correlation coefficient between these two assets was 0.61.

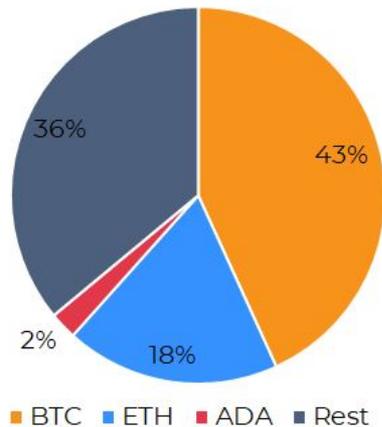
*A 30-day correlation dynamics between cryptocurrencies and the shares of the largest public companies holding BTC*



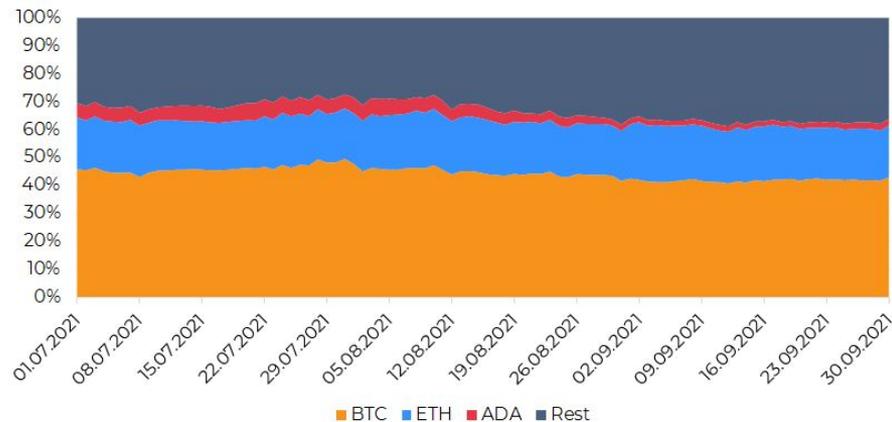
**In July, a negative correlation was observed between Tesla stock prices and bitcoin's prices.** But by the end of the month, it grew quickly, first to moderate positive and then to high positive. Such a sharp growth could have been the result of the release of Tesla's Q2 report, in which the company announced the purchase of BTC. For the third quarter, the correlation coefficient between the two assets was 0.68. At the beginning and end of the quarter, a significantly higher negative correlation was recorded between Tesla and dogecoin stocks. The correlation coefficient between them was -0.38 for the third quarter.

# Dominance of cryptocurrencies

BTC, ETH and ADA dominance at the end of the quarter, %



Bitcoin, ether, and cardano dominance dynamics, %



**By the end of the quarter, Bitcoin dominance decreased by almost 3% – to about 43%.** At the same time, at the end of July, its share was almost 50%. The largest BTC dominance decline occurred at the beginning of September – at the time when a general crypto market fall was observed. On September 11, the dominance level was 40.9%.

**Ethereum market share did not change significantly and remained at about 18%.** The most considerable increase in ETH dominance was recorded in early August when the London hardfork was launched for the Ethereum network. A noticeable dominance increase was also observed in early September. Amid the launch of Alonzo White hard fork, **Cardano market share reached 6.2% in July.** However, since August, ADA dominance started declining gradually and eventually fell to 1.6% in September. By the end of the third quarter, the dominance level decreased from 5.1% to 2.4%.



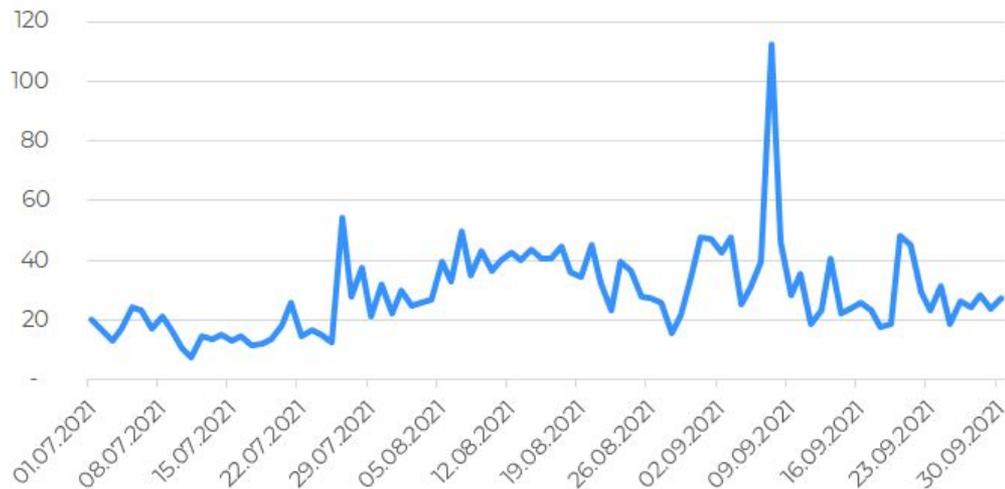
# **EXMO trade analytics**

**business**

**trade**

	July	August	September	3rd quarter
Trading volumes, \$ bln	598	1 087	999	2 684
Trading volumes change	-43.8%	81.8%	-8.1%	-53.3%

*Dynamics of trading volumes, \$ mln*



**The lowest trading activity was observed in July.** The lowest trading volumes for the quarter were observed on 24 out of 30 days during this month. 11th July saw the lowest trading volume.

**The maximum trading volumes were recorded on 7th September** – the day when bitcoin officially became accepted as legal tender in El Salvador.

However, subsequent negative news from other markets along with crypto regulation tightening in China and the USA increased market uncertainty, which led to a decrease in trading activity at the end of the month.

*The change in crypto trading volumes compared to the previous period*

	BTC	ETH	XRP	DOGE	ADA	DASH	LTC	EXM	ETC	BCH
July	-43.0%	-39.4%	-52.1%	-74.9%	-65.3%	-38.7%	-35.3%	-48.2%	-15.6%	-42.0%
August	58.0%	90.5%	215.7%	111.9%	420.2%	85.4%	93.8%	-55.5%	69.2%	33.1%
September	-6.7%	-0.5%	-27.6%	-46.3%	19.8%	-8.5%	34.4%	33.9%	-31.9%	0.2%
Q3	-43.1%	-32.0%	-67.6%	-91.8%	-39.4%	-68.1%	-66.0%	-67.8%	-81.1%	-78.4%

**Dogecoin trading volumes dropped by 12 times** when compared to the second quarter – **the most considerable decrease observed in the third quarter**. The volumes were at their lowest in July and September.

**ATOM, ETH and ADA trading volumes experienced the smallest decline** compared to other coins. Despite the general decline in crypto trading volumes, ether and cardano were widely covered in the media thanks to their latest network upgrades. Therefore, in August, ADA trading volumes grew by 5 times. Cosmos also made progress in relation to the project's development – an aspect which was less covered by the media, but generated greater trading activity.

**XRP trading volumes have also jumped significantly in August – by as much as three times.**

Return on investment (ROI) of cryptocurrencies per quarter in USD

	BTC	ETH	ADA	XRP	DOGE	DOT	LTC	BCH	ATOM	XLM
July	17.3%	10.4%	-4.7%	4.9%	-18.8%	1.9%	-0.8%	3.0%	7.3%	1.9%
August	13.8%	35.7%	110.6%	59.1%	34.3%	85.1%	18.9%	16.7%	79.5%	18.3%
September	-5.1%	-10.8%	-22.0%	-18.0%	-25.2%	-4.6%	-8.8%	-19.3%	59.7%	-15.8%
Q3	26.8%	33.7%	56.5%	36.8%	-18.5%	79.9%	7.6%	-3.0%	207.5%	1.5%
YTD	54.4%	314.8%	1094.9%	343.1%	4415.3%	217.9%	25.7%	50.0%	519.7%	105.7%

**September ended with negative ROI for most cryptocurrencies.** The exception was Cosmos (ATOM), which continued its growth that began in August.

**Nevertheless, almost all assets under review ended the third quarter in positive territory, except for dogecoin,** interest in which has clearly subsided due to the lack of real shifts in the project's development, as well as launches of similar meme cryptocurrencies.

**Litecoin, bitcoin cash and stellar,** which are forks of bitcoin and xrp, showed weak quarterly results.

# Volatility of cryptocurrencies

Cryptocurrency price volatility in relation to USD for the specified periods

	BTC	ETH	ADA	XRP	DOGE	DOT	LTC	BCH	ATOM	XLM
July	2.9%	4.0%	3.2%	3.9%	4.1%	5.6%	3.1%	3.2%	6.4%	4.0%
August	3.1%	3.8%	6.7%	6.8%	7.2%	5.4%	4.1%	3.8%	6.7%	4.9%
September	3.4%	5.3%	9.6%	5.7%	4.9%	7.9%	6.0%	4.8%	12.0%	5.6%
Q3	3.1%	4.4%	7.0%	5.6%	5.5%	6.4%	4.5%	3.9%	8.7%	4.8%

In the third quarter, **Bitcoin's rate appeared to be most stable compared to other cryptocurrencies.**

ATOM had the highest volatility but at the same time showed significant growth.

**The highest cryptocurrency volatility was observed in July and the lowest in September.**

# Top gainers and losers for the quarter

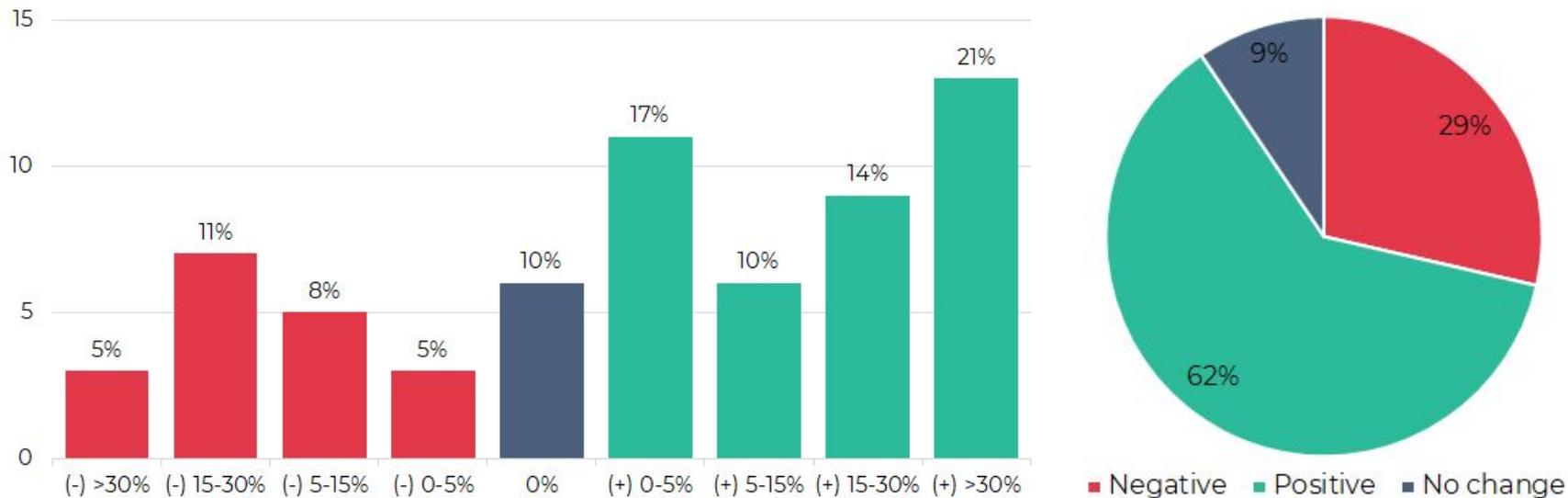
## Top gainers

Rank	Crypto	ROI
1	VLX	245%
2	ATOM	200%
3	OMG	146%
4	ONE	114%
5	XTZ	93%
6	ALGO	85%
7	DOT	74%
8	CRON	54%
9	ADA	54%
10	WAVES	49%

## Top losers

Rank	Crypto	ROI
1	GNV	-45%
2	PLN	-34%
3	HAI	-30%
4	DCR	-26%
5	PRQ	-20%
6	DOGE	-20%
7	ETC	-19%
8	ZEC	-18%
9	SMART	-15%
10	ZAG	-15%

# Cryptocurrencies by ROI for the quarter



The prices of either USD or USDT trading pairs were used for the data shown above. If such pairs did not exist, the price of the trading pair was converted to USD.

**Most of the EXMO listed cryptocurrencies ended the quarter in positive territory.** For 44% of assets, ROI was more than 5%. Of these, for 21% of cryptocurrencies, the indicator was above 30%.

# Cryptocurrency correlation for the quarter

Crypto prices correlation in USD in the third quarter

	BTC	ETH	ADA	XRP	DOGE	DOT	LTC	BCH	ATOM	XLM
BTC	1.00	0.97	0.88	0.94	0.75	0.85	0.92	0.91	0.57	0.90
ETH	0.97	1.00	0.89	0.93	0.72	0.91	0.95	0.91	0.62	0.88
ADA	0.88	0.89	1.00	0.94	0.73	0.88	0.88	0.83	0.66	0.84
XRP	0.94	0.93	0.94	1.00	0.84	0.85	0.94	0.93	0.56	0.95
DOGE	0.75	0.72	0.73	0.84	1.00	0.52	0.81	0.88	0.14	0.91
DOT	0.85	0.91	0.88	0.85	0.52	1.00	0.85	0.75	0.86	0.71
LTC	0.92	0.95	0.88	0.94	0.81	0.85	1.00	0.97	0.52	0.93
BCH	0.91	0.91	0.83	0.93	0.88	0.75	0.97	1.00	0.36	0.96
ATOM	0.57	0.62	0.66	0.56	0.14	0.86	0.52	0.36	1.00	0.34
XLM	0.90	0.88	0.84	0.95	0.91	0.71	0.93	0.96	0.34	1.00

Pearson's correlation coefficient is calculated based on the movement of cryptocurrencies prices in USD. A positive relationship (values are greater than zero) means that the prices of both assets move in the same direction. A negative relationship shows that when one asset grows, the price of another decreases and vice versa.

0 – 0.3 – very weak correlation

0.3 – 0.5 – weak

0.5 – 0.7 – medium

0.7 – 0.9 – high

0.9 – 1 – very high

**In the third quarter, most cryptocurrencies had a strong positive correlation.**

ATOM showed the lowest correlation along with the most considerable growth for the quarter. Cosmos was least correlated with other cryptocurrencies except for Polkadot that also grew considerably in September.

**Dogecoin also recorded a slightly lower correlation with other cryptocurrencies,** mainly due to its price fall in June.

# Monthly cryptocurrency correlation

July	BTC	ETH	ADA	XRP	DOGE	DOT	LTC	BCH	ATOM	XTM
BTC	1.00	0.82	0.27	0.80	0.24	0.35	0.64	0.71	0.14	0.66
ETH	0.82	1.00	0.66	0.84	0.63	0.69	0.83	0.87	0.40	0.81
ADA	0.27	0.66	1.00	0.65	0.91	0.94	0.88	0.83	0.72	0.52
XRP	0.80	0.84	0.65	1.00	0.62	0.71	0.91	0.93	0.36	0.73
DOGE	0.24	0.63	0.91	0.62	1.00	0.85	0.81	0.75	0.49	0.61
DOT	0.35	0.69	0.94	0.71	0.85	1.00	0.89	0.87	0.73	0.56
LTC	0.64	0.83	0.88	0.91	0.81	0.89	1.00	0.97	0.59	0.70
BCH	0.71	0.87	0.83	0.93	0.75	0.87	0.97	1.00	0.59	0.70
ATOM	0.14	0.40	0.72	0.36	0.49	0.73	0.59	0.59	1.00	0.24
XTM	0.66	0.81	0.52	0.73	0.61	0.56	0.70	0.70	0.24	1.00

August	BTC	ETH	ADA	XRP	DOGE	DOT	LTC	BCH	ATOM	XTM
BTC	1.00	0.94	0.88	0.86	0.86	0.89	0.93	0.87	0.83	0.85
ETH	0.94	1.00	0.76	0.81	0.85	0.80	0.91	0.85	0.68	0.82
ADA	0.88	0.76	1.00	0.87	0.77	0.92	0.82	0.80	0.94	0.80
XRP	0.86	0.81	0.87	1.00	0.95	0.89	0.94	0.97	0.80	0.98
DOGE	0.86	0.85	0.77	0.95	1.00	0.85	0.94	0.96	0.71	0.95
DOT	0.89	0.80	0.92	0.89	0.85	1.00	0.85	0.85	0.94	0.83
LTC	0.93	0.91	0.82	0.94	0.94	0.85	1.00	0.97	0.74	0.96
BCH	0.87	0.85	0.80	0.97	0.96	0.85	0.97	1.00	0.73	0.98
ATOM	0.83	0.68	0.94	0.80	0.71	0.94	0.74	0.73	1.00	0.71
XTM	0.85	0.82	0.80	0.98	0.95	0.83	0.96	0.98	0.71	1.00

September	BTC	ETH	ADA	XRP	DOGE	DOT	LTC	BCH	ATOM	XTM
BTC	1.00	0.96	0.79	0.94	0.91	0.56	0.93	0.93	-0.51	0.95
ETH	0.96	1.00	0.83	0.96	0.95	0.52	0.92	0.93	-0.62	0.95
ADA	0.79	0.83	1.00	0.86	0.87	0.38	0.72	0.71	-0.53	0.79
XRP	0.94	0.96	0.86	1.00	0.98	0.44	0.91	0.93	-0.68	0.98
DOGE	0.91	0.95	0.87	0.98	1.00	0.37	0.89	0.92	-0.73	0.96
DOT	0.56	0.52	0.38	0.44	0.37	1.00	0.55	0.47	0.16	0.48
LTC	0.93	0.92	0.72	0.91	0.89	0.55	1.00	0.95	-0.55	0.95
BCH	0.93	0.93	0.71	0.93	0.92	0.47	0.95	1.00	-0.68	0.97
ATOM	-0.51	-0.62	-0.53	-0.68	-0.73	0.16	-0.55	-0.68	1.00	-0.66
XTM	0.95	0.95	0.79	0.98	0.96	0.48	0.95	0.97	-0.66	1.00

When it comes to correlation between cryptocurrencies for each month of the quarter, then **the weakest relationship between asset prices, especially with Bitcoin, was observed in June** – the least volatile month.

As market volatility increased in the following two months, so did the correlation between most cryptocurrencies. ATOM was an exception, showing a moderate negative correlation with other assets.

**[EXMO is now represented on TradingView.com.](#)** The platform features real-time trading data on the exchange's currency pairs and EXMO Coin's performance dynamics on the platform.

**[Inactive account fee is cancelled.](#)** We've updated our User Agreement – starting from 1st July 2021, EXMO will no longer charge an inactivity fee.

**[IntoTheBlock Analytics is now available on EXMO.](#)** IntoTheBlock's dashboards cover on-chain data, trading signals for cryptocurrencies including crypto market sentiment, as well as the price correlation of coins with bitcoin in real time.



# **EXMO** **trader activity**

trading activity

# First deposits on EXMO

The change in the average amount of first deposits (USD)



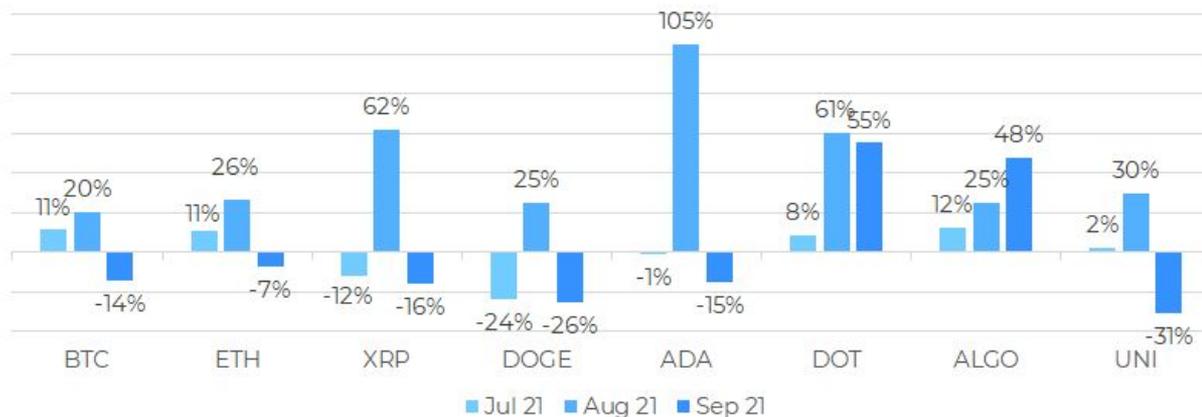
In the third quarter, **the average amount of first deposits grew by 44%** compared to the previous quarter.

In August, the average first deposit figure reached a year all-time high.

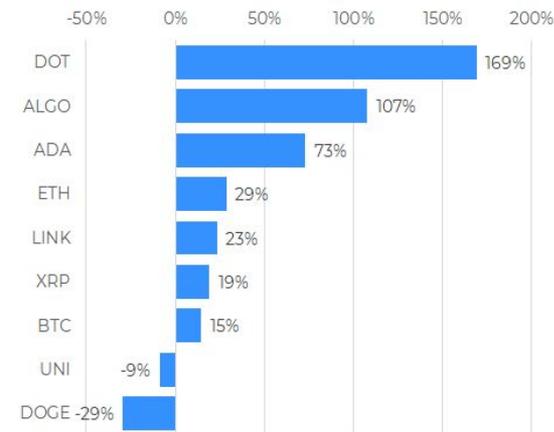
The data shows that **the average amount of first deposits decreases** when the market comes to life and there are many beginner traders wishing to purchase crypto for the very first time.

# Cryptocurrency balances on EXMO

Cryptocurrency balance changes compared to previous month



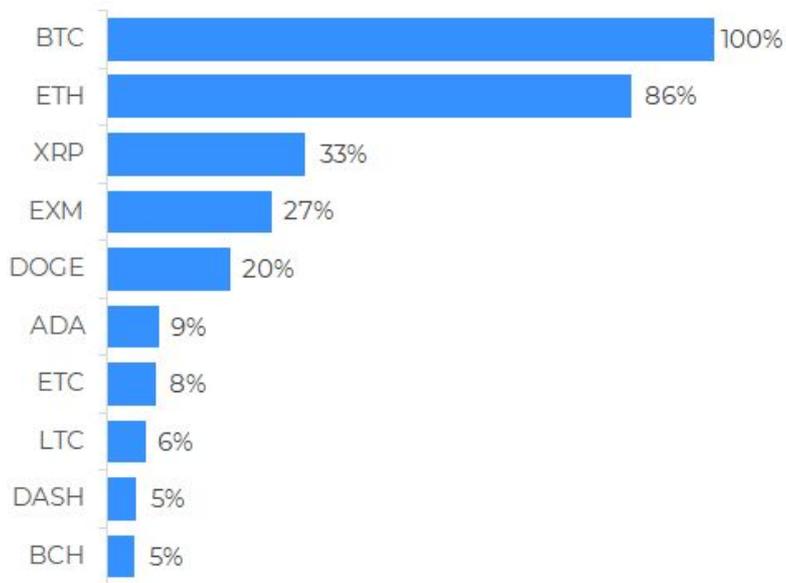
Cryptocurrency balance changes for the quarter in USD



Among the major cryptocurrencies, **Polkadot (DOT)**, **Algorand (ALGO)** and **Cardano (ADA)** balances recorded the largest increase for the quarter. **Dogecoin (DOGE)** balances experienced the largest decrease.

# Cryptocurrencies by user balance

The top 10 cryptocurrencies by user balance at the end of the quarter\*



\*The percentage compares the performance of altcoins with bitcoin

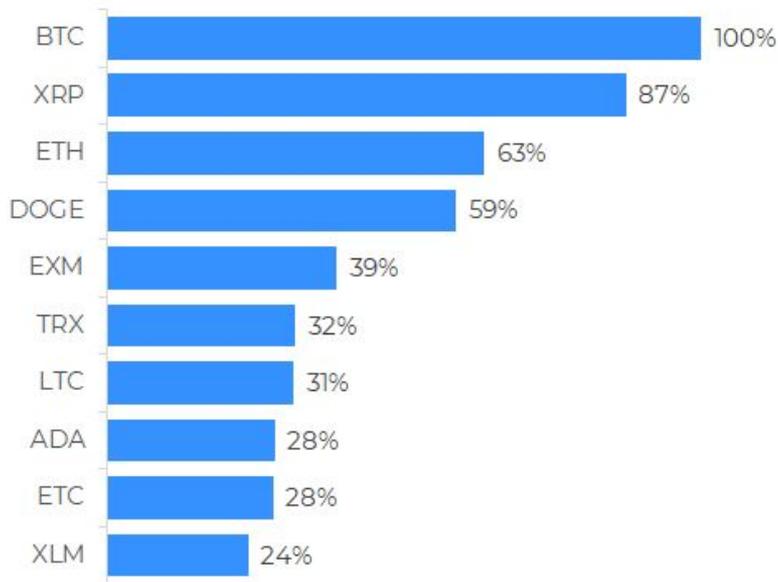
Among all cryptocurrencies listed on EXMO, Wirex (WXT), Polkadot (DOT) and Cryptocean (CRON) experienced the largest balance growth for the quarter.

Polkadot was listed on EXMO at the end of the second quarter.

The cryptocean price kept growing for most of the quarter and barely responded to the general negative market sentiment.

# Cryptocurrencies by the number of holders

*The top 10 cryptocurrencies by the number of holders at the end of the quarter\**

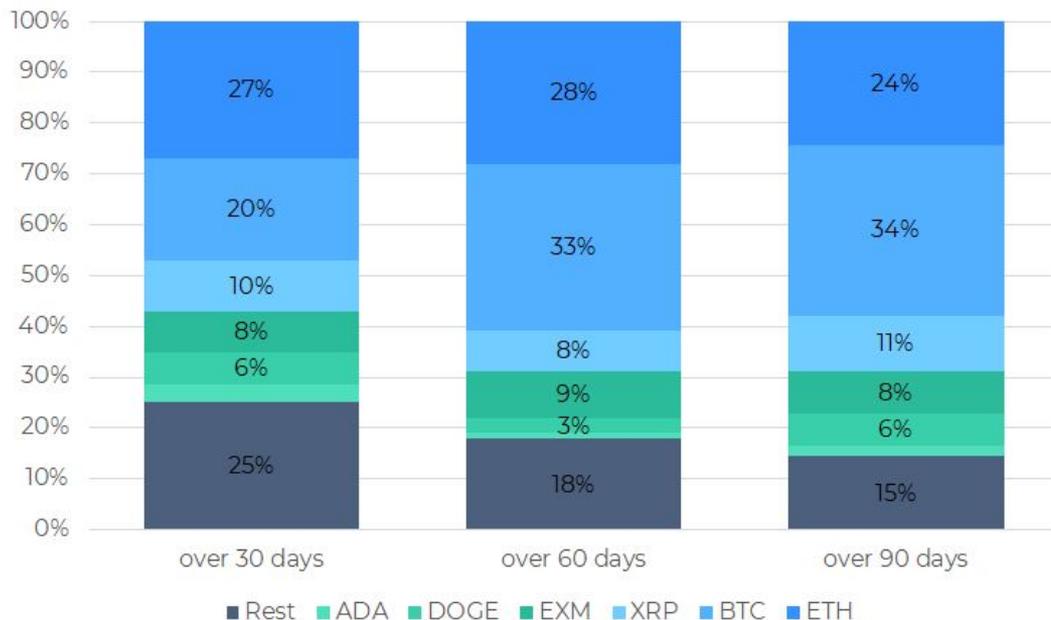


*\* The percentage compares the performance of altcoins with bitcoin*

Among all cryptocurrencies listed on EXMO, Polkadot (DOT), Wirex (WXT) and PARSIQ (PRQ) **recorded the largest increase in terms of the number of holders.**

The number of Ontology (ONT), Ontology Gas (ONG) and Decred (DCR) **holders decreased the most.**

Distribution of inactive assets by the end of the third quarter



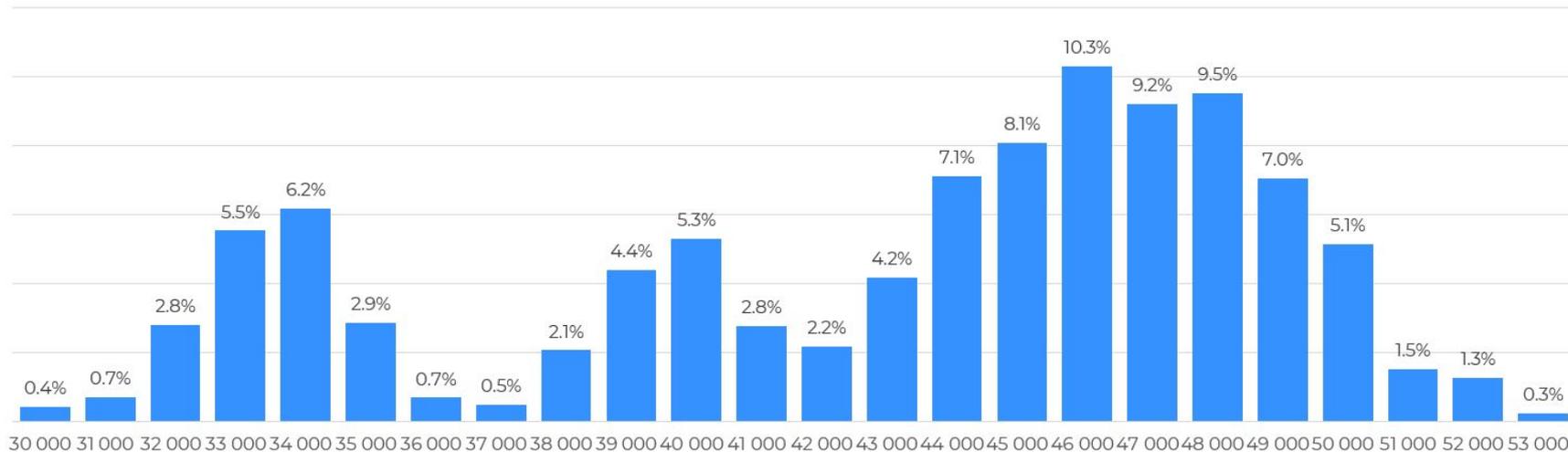
**Ether accounts for 27% of all assets that were not traded since August** but remained on user balances.

When it comes to other time-frames, altcoins and tokens, such as **XRP, DOGE** and **ADA**, account for the greatest share of all inactive assets while BTC share is considerably lower.



# Bitcoin (BTC): trading volumes

*BTC/USD trading volume distribution based on BTC price in the third quarter*



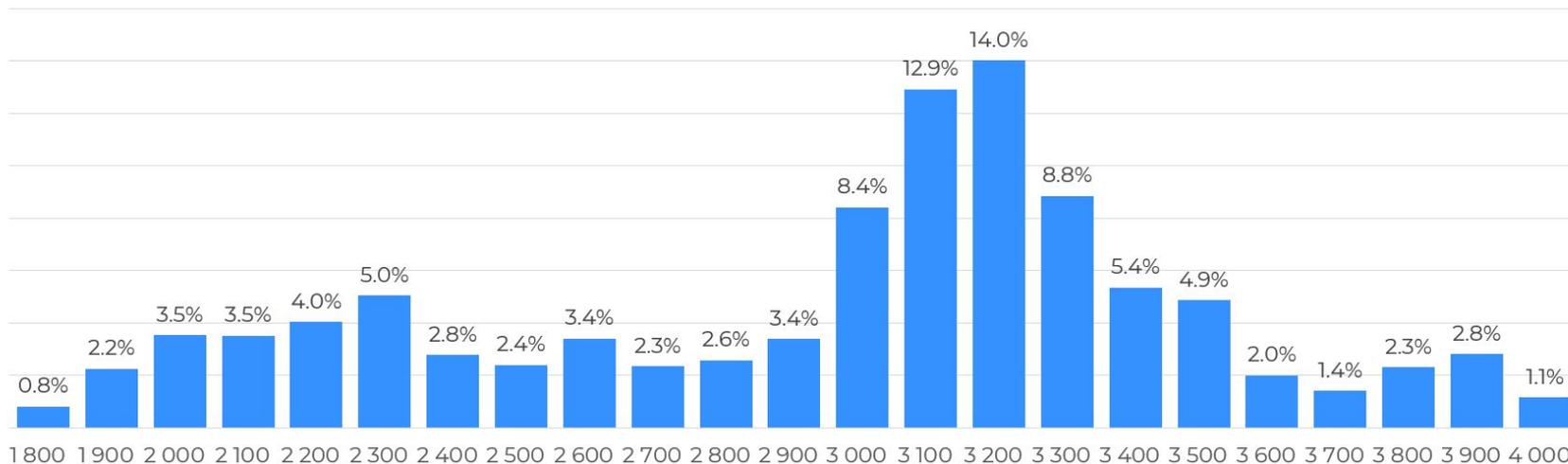
**More than half (51.2%) of all BTC/USD trades were carried out at a price between \$44,000 and \$50,000.**

26% of all trades were conducted at the price below \$40,000. The most significant price levels at which BTC/USD trading volumes reached local highs were \$34,000, \$40,000, \$46,000 and \$48,000.



# Ethereum (ETH): trading volumes

*ETH/USD trading volume distribution based on ETH price in the third quarter*



**Almost half (49.6) of all ETH/USD trades were carried out at a price between \$3,000 and \$3,500.**

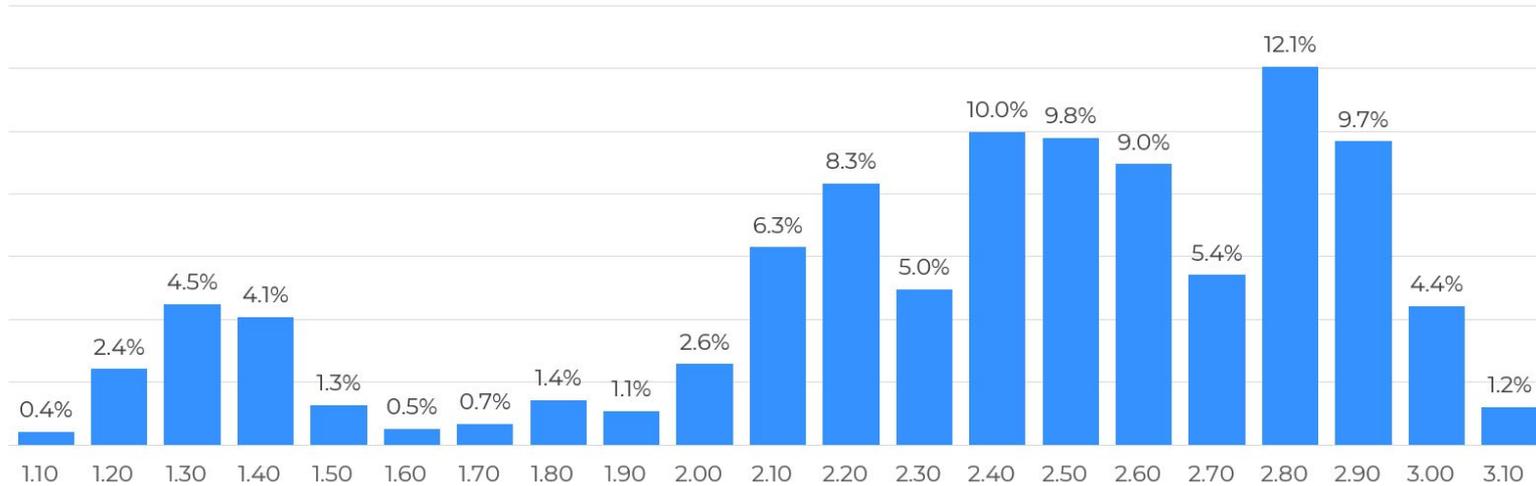
19% of all trades were conducted at the price of \$2,400.

The most significant price levels at which ETH/USD trading volumes reached local highs were \$2,300, \$3,200 and \$3,900.



# Cardano (ADA): trading volumes

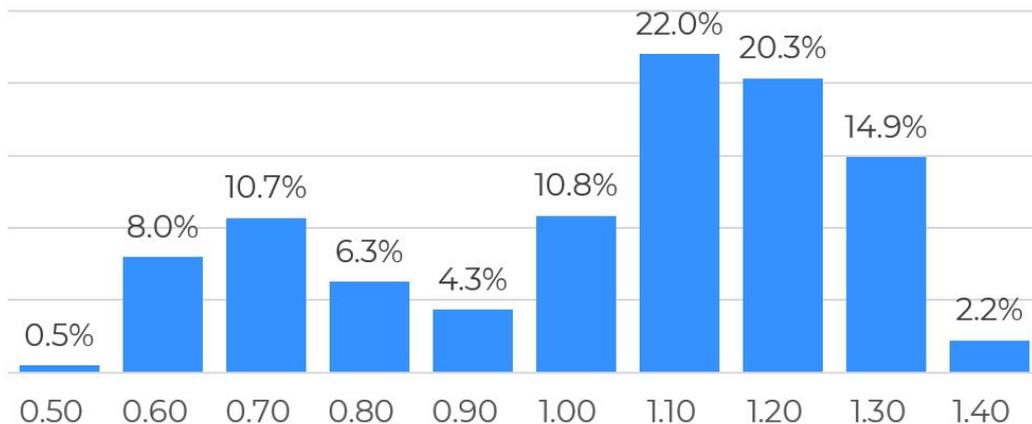
ADA/USD trading volume distribution based on ADA price in the third quarter



ADA/USD trading volumes for the quarter can be split into three approximate equal parts based on ADA's price levels: between \$1.10 and \$2.30 (33.5%), between \$2.30 and \$2.70 (33.7%) and between \$2.70 and \$3.20 (32.8%).

The most significant price levels at which ADA/USD trading volumes reached local highs were \$1.30, \$2.20, \$2.40 and \$2.80.

*XRP/USD trading volume distribution based on XRP price in the third quarter*



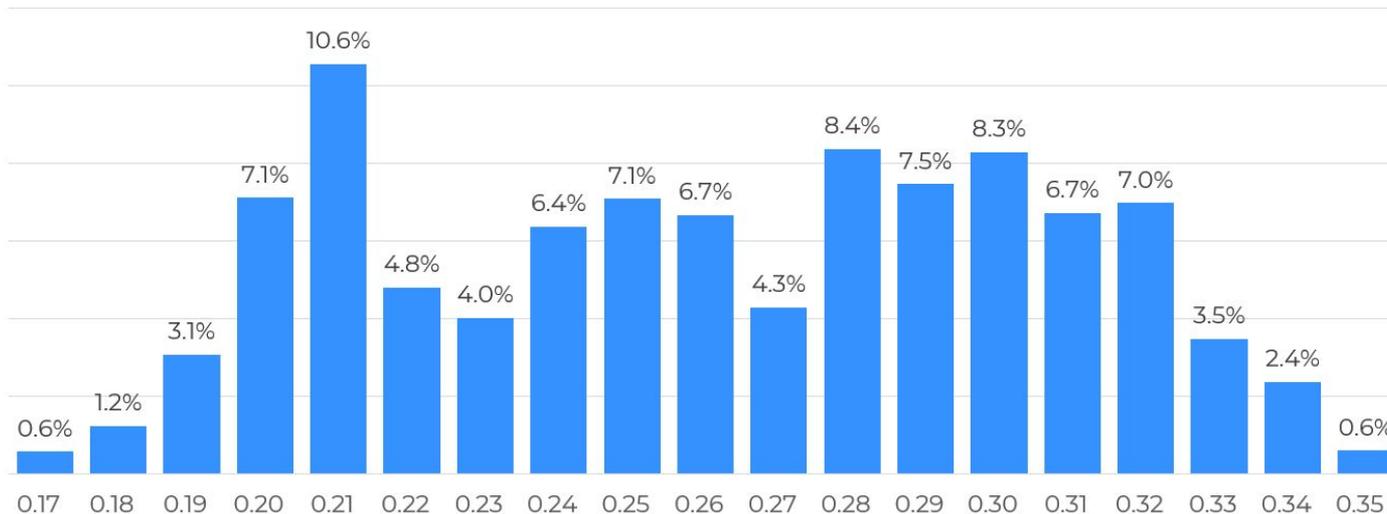
**The XRP/USD pair was mainly traded within the range of \$1.00 to \$1.40** – 68% of the total trading volume for the quarter.

About 30% of the total trading volumes were recorded at XRP's price below \$1.00. The most significant price levels at which XRP/USD trading volumes reached local highs were \$0.7 and \$1.10.



# Dogecoin (DOGE): trading volumes

*DOGE/USD trading volume distribution based on DOGE price in the third quarter*

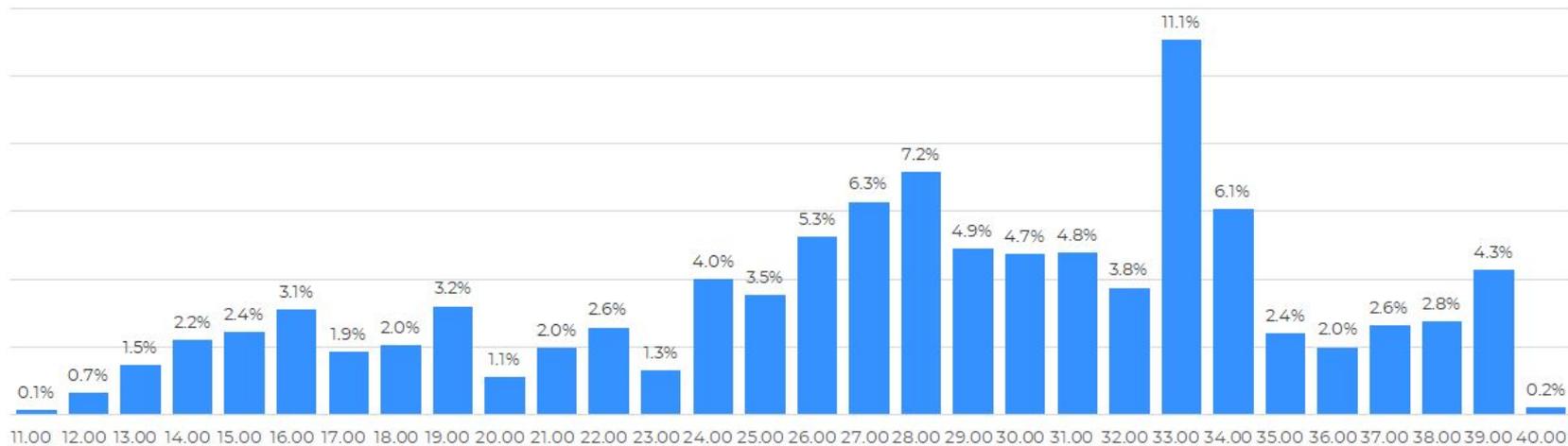


**Several exchange price intervals for the DOGE/USD pair, at which the trading volumes increased noticeably:** from \$0.20 to \$0.22 (almost 18%), from \$0.24 to \$0.27 (20%), from \$0.28 to \$0.33 (almost 40%).

The most significant price levels at which DOGE/USD trading volumes reached local highs were \$0.21, \$0.25 and \$0.28.



*DOT/USD trading volume distribution based on DOT price in the third quarter*



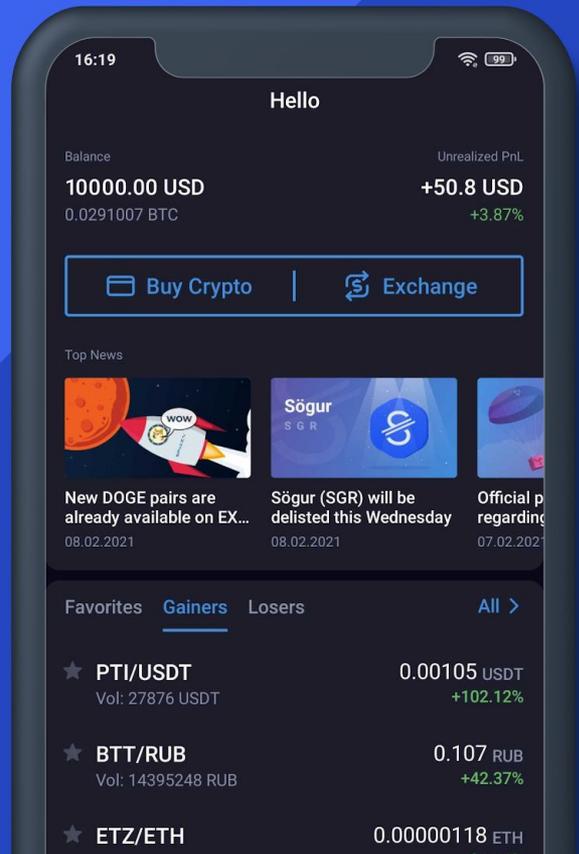
**Almost a quarter of trades (24.2%) for the DOT/USD pair took place at the price of up to \$24.** 61.6% of the trading volume took place within the exchange price range from \$24 to \$35.

The largest growth in trades was observed at the price from \$26 to \$29 and \$33 to \$35. The most significant price levels at which DOT/USD trading volumes reached local highs were \$16, \$19, \$28, \$33 and \$39.

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16:19

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