

Cryptocurrency Trading Update

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Bitvo.com

November 12, 2019

Bitcoin (BTC)

C\$11,648 (US\$8,800)

November 12, 2019 2:00 pm

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General Cryptocurrency News:

- It appears that RBC is exploring the launch of a cryptocurrency trading platform that will allow customers to buy cryptocurrencies. According to The Logic, patents filed in the United States in April became available to the public in October showing that the bank may be preparing to make an entrance in the sector.
- The Bank of Canada has released an update to its annual cryptocurrency usage and adoption report detailing increased awareness and adoption of cryptocurrencies in Canada. Specifically, the "2018 Bitcoin Omnibus Survey: Awareness and Usage" report outlined that cryptocurrency awareness had increased from 62% in 2016 to 89% in 2018 and that Bitcoin ownership increased from 3% in 2016 to 5% in 2018.
- Large corporates Ford, LG, Volkswagen and Volvo have completed a pilot project on the Responsible Sourcing Blockchain Network (RSBN) built with Hyper Ledger Fabric to track cobalt refinement to prevent exploitative mining practices. The group will jointly go live with the project in 2020.
- Vancouver-based Einstein Exchange shut down last week, allegedly owing more than \$16 million to its customers, including approximately \$11 million in cryptocurrencies and \$5 million in Canadian dollars. The British Columbia Securities Commission seized control of the entity after receiving "numerous complaints" that customers were unable to access their funds, highlighting again the importance of conducting due diligence on platforms used to trade cryptocurrencies.

BTC News:

- Payment processing company Square announced that its Bitcoin revenue increased 244% year over year, showing increased adoption of the cryptocurrency as a form of payment.
- The CEM Group is planning to launch Bitcoin options on its futures contracts commencing January 2020, increasing options for traders to hedge positions.

Trading History YTD:

- Since the end of June, the price of BTC has traded sideways to negative with positive price momentum continually countered by downward pressure and the price of BTC looking to find a level it can support.

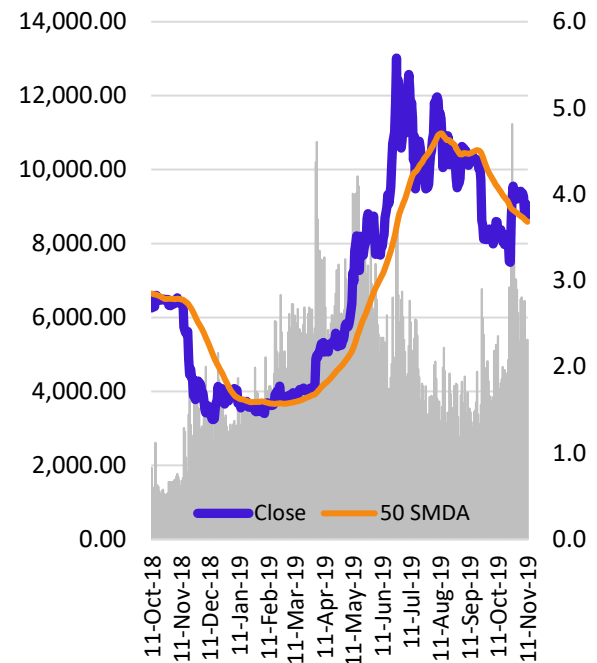
Current Environment:

- The price of BTC continued to look for support last week as it dropped from over US\$9,400 to the mid-US\$8,000s.
- Volumes for the week were lower, averaging 2.44 million coins per day.

Technical Trading Score*:	LOG IN TO VIEW
Date Of Inception:	2009
Primary Use:	CURRENCY
Coins Outstanding:	18mm
Maximum Coins:	21mm
POW or POS:	WORK
Current Mining Fee (USD):	~\$0.476
Website:	https://bitcoin.org

Coin Profile

Bitcoin is a decentralized coin enabling revolutionary means to exchange value across the globe. It continues to be the biggest and most influential coin, encouraging peer-to-peer payment networks powered by its users with no central or middle authority.



All figures in USD\$, unless otherwise specified

Technical Scoring

Please log in to your Bitvo account for real time Technical Analysis Scores and other technical trading indicators.

Crypto Market



Bitcoin

Overall Technical Score



Relatively Unfavourable

Short Term



Medium Term



Long Term



In the image above, a Bull represents relatively favourable technical analysis indicators and a Bear represents relatively unfavourable technical analysis indicators.

Ether (ETH)

C\$247 (US\$187)

November 12, 2019 2:00 pm

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■ ETH News:

- Team lead at the Ethereum Foundation, Péter Szilágyi, has confirmed December 4th, 2019 as the expected date for the network's forthcoming Istanbul hard fork, which will commence at block 9,069,000.
- Following the Constantinople upgrade, which was completed in February 2019, Istanbul represents the next hard fork in the network's eventual transition to Ethereum 2.0, dubbed Berlin, which is intended to be Ethereum's final upgrade and set to take place in 2020.
- Crypto company Radar has launched a service called RedShift which will allow customers to pay Bitcoin lightning network invoices with Ether. This may be useful to people who want to use the lightning network without having to be fully integrated into the system.

■ Trading History YTD:

- The price of ETH commenced the year relatively stable before accelerating in May and then falling July onwards.
- While the price of ETH has given up most of its year to date gains, it remains in positive territory on the year in USD terms.
- However, with the positive performance of BTC in 2019, ETH has underperformed BTC, with the price of ETH in BTC terms generally trending down since the end of February.

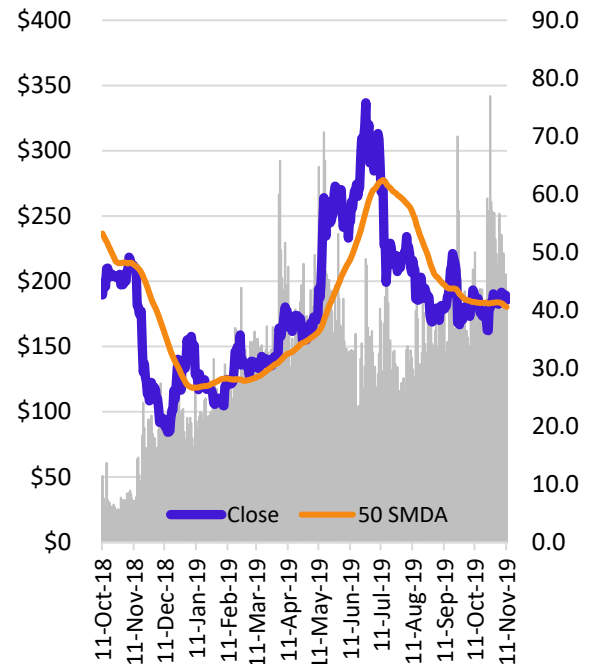
■ Current Environment:

- The price of ETH traded sideways last week, resulting in it outperforming BTC, which traded down for most of the week.
- As a result, the price of ETH gained in BTC terms while ending the week down slightly in USD terms.
- Volumes for the week averaged 47.5 million coins per day, which is below previous week's volumes of 51.9 million coins per day.

Technical Trading Score*:	LOG IN TO VIEW
Date Of Inception:	2014
Primary Use:	SMART CONTRACTS
Coins Outstanding:	107mm
Maximum Coins:	NO MAX
POW or POS:	WORK
Current Mining Fee (USD):	~\$0.129
Website:	https://www.ethereum.org/

Coin Profile

Ethereum is a decentralized platform that runs smart contracts: applications that run exactly as programmed without any possibility of downtime, censorship, fraud or third-party interference. These apps run on a custom built blockchain.



All figures in USD\$, unless otherwise specified



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XRP

C\$0.36 (US\$0.27)

November 12, 2019 2:00 pm

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■ XRP News:

- MoneyGram, a company that started to use XRP via RippleNet earlier this year to move money across borders said that they are now moving 10% of their payments between the United States and Mexico using XRP.

■ Trading History YTD:

- XRP has underperformed other major cryptocurrencies so far in 2019, with its price trending down or flat from January through May.
- While XRP participated in May and June's almost universal cryptocurrency price rally, it did not benefit to the same extent as other major cryptocurrencies.
- Overall, the price of XRP is down on the year in USD terms and, as a result of the above noted underperformance versus other cryptocurrencies, the price of XRP has declined steadily in terms of BTC since the beginning of 2019.

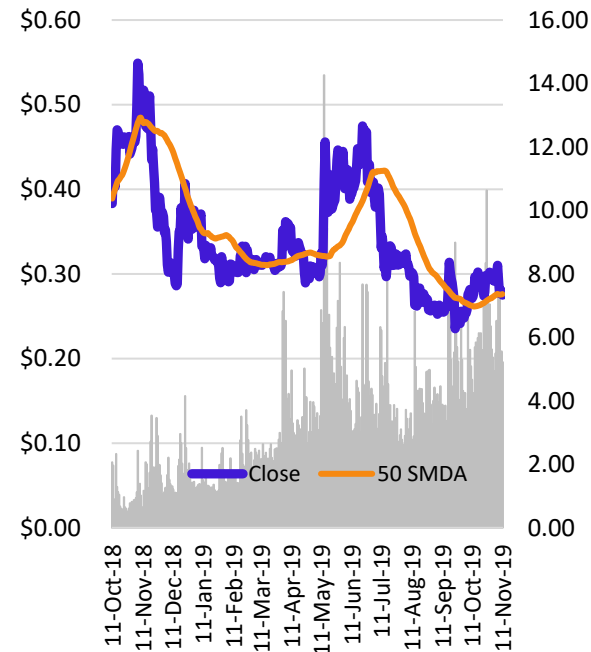
■ Current Environment:

- The price of XRP dropped early in the week last week before stabilizing at lower levels both in USD and BTC terms.
- Volumes for the week averaged 3.62 billion coins per day, which is lower than the previous week's volumes of 3.84 billion coins per day.

Technical Trading Score*:	LOG IN TO VIEW
Date Of Inception:	2012
Primary Use:	CURRENCY
Coins Outstanding:	99.99 Billion
Maximum Coins:	100 Billion
POW or POS:	CORRECTNESS
Current Mining Fee (USD):	~\$0.0003
Website:	https://ripple.com/

Coin Profile

XRP is the decentralized native currency employed by Ripple. Ripple is a settlement system, currency exchange and remittance network created by Ripple Labs Inc. It is built upon a distributed open source internet protocol, and supports tokens representing fiat currency or cryptocurrency. The company purports to enable "secure, instantly and nearly free global financial transactions of any size with no chargebacks."



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Technical Scoring

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Crypto Market



XRP

Overall Technical Score



Relatively Unfavourable

Short Term



Available!
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Medium Term



Available!
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Long Term



Available!
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Bitcoin Cash (BCH)

C\$383 (US\$290)

November 12, 2019 2:00 pm

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■ BCH News:

- No significant BCH related news last week.

■ Trading History YTD:

- Somewhat similar to the trend in the price of BTC, the price of BCH ground sideways for the first quarter of 2019 before experiencing a price spike in early April.
- The price of BCH has trended sideways since the beginning of April in USD terms and negatively in BTC terms over the same period.

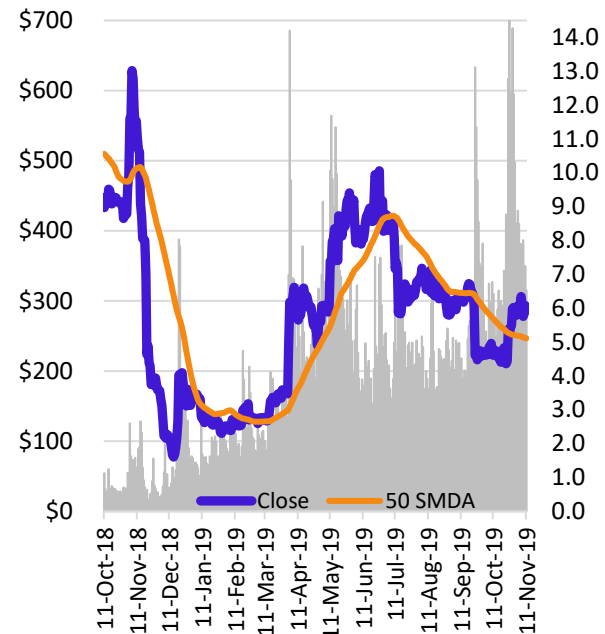
■ Current Environment:

- The price of BCH dropped in the first half of the week last week before accelerating in the second half of the week.
- Overall, positive momentum outpaced negative, with the price of BCH ending up on the week in both USD and BTC terms.
- Volumes were significantly lower week-over-week, averaging 7.26 million coins per day compared to the previous week's 10.6 million coins per day.

Technical Trading Score*:	LOG IN TO VIEW
Date Of Inception:	2017
Primary Use:	CURRENCY
Coins Outstanding:	18mm
Maximum Coins:	21 mm
POW or POS:	WORK
Current Mining Fee (USD):	~\$0.0011
Website:	https://www.bitcoincash.org/

Coin Profile

Bitcoin Cash is peer-to-peer electronic cash for the Internet. It is fully decentralized, with no central bank and requires no trusted third parties to operate. Bitcoin Cash is the continuation of the Bitcoin project as peer-to-peer digital cash. It is a fork of the Bitcoin blockchain ledger, with upgraded consensus rules that allow it to grow and scale.



All figures in USD\$, unless otherwise specified

Technical Scoring

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Crypto Market



Bitcoin Cash

Overall Technical Score



Relatively Favourable

Short Term



Medium Term



Long Term



Litecoin (LTC)

C\$82 (US\$62)

November 12, 2019 2:00 pm

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■ LTC News:

- No significant Litecoin related news last week

■ Trading History YTD:

- Having started 2019 as a relative outperformer in comparison to other major cryptocurrencies, the price of LTC lost momentum in April onwards, but for a brief recovery in June.
- The price of LTC in USD terms has traded in positive territory for all of 2019 year to date. However, as a result of the above noted recent underperformance, the price of LTC is now down on the year in BTC terms.

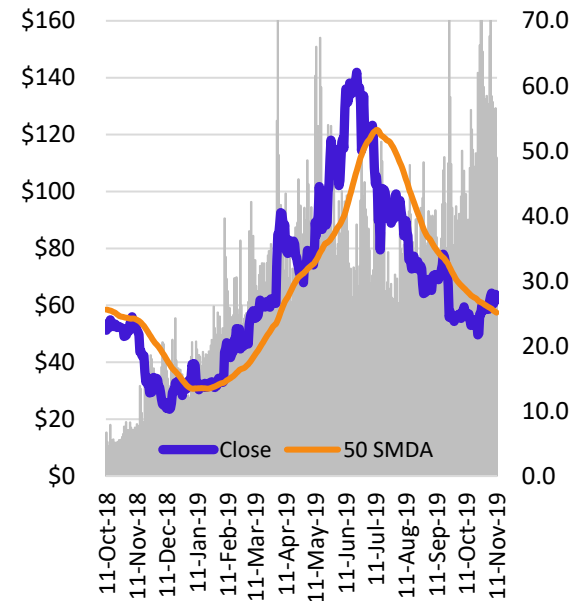
■ Current Environment:

- The price of LTC was volatile last week, experiencing movements both up and down throughout the week.
- Overall, the price of LTC ended the week down in USD terms and up in BTC terms.
- Volumes last week averaged 56.9 million coins per day which was lower than the previous week's volume of 58.3 million coins per day.

Technical Trading Score*:	LOG IN TO VIEW
Date Of Inception:	2011
Primary Use:	CURRENCY
Coins Outstanding:	62mm
Maximum Coins:	84 mm
POW or POS:	WORK
Current Mining Fee (USD):	~\$0.035
Website:	https://litecoin.com/

Coin Profile

Litecoin is a peer-to-peer cryptocurrency and open source software project released under the MIT/X11 license. Creation and transfer of coins is based on an open source cryptographic protocol and is not managed by any central authority. The coin was inspired by, and in technical details is nearly identical to, Bitcoin.



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Technical Scoring

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Crypto Market



Litecoin

Overall Technical Score



Relatively Favourable

Short Term



Medium Term



Long Term



DASH (DASH)

C\$94 (US\$71)

November 12, 2019 2:00 pm

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■ DASH News:

- Dash Dinheiro Digital is planning aggressive adoption in Latin America. The strategy consists of improved communication including marketing materials, technical documents and instructions. Dash remittances remain the major use case in Latin America, fueled by hyperinflation and lack of other remittance options.
- Dash Text, the Venezuela-based Dash platform that enables individuals to send Dash via SMS text, has relaunched its decentralized charity donation platform with a new design and more recipient schools to further improve the program. According to the charity's website, Dash Text Charity shows that 45 Dash (US\$3,204) has been raised so far for the three schools that they currently have integrated into the system.

■ Trading History YTD:

- After a generally stable start to the year, the price of Dash increased in USD terms from April through June before declining July onwards.
- Accounting for movements both up and down, the price of Dash is now in negative territory for the year both in USD and BTC terms.

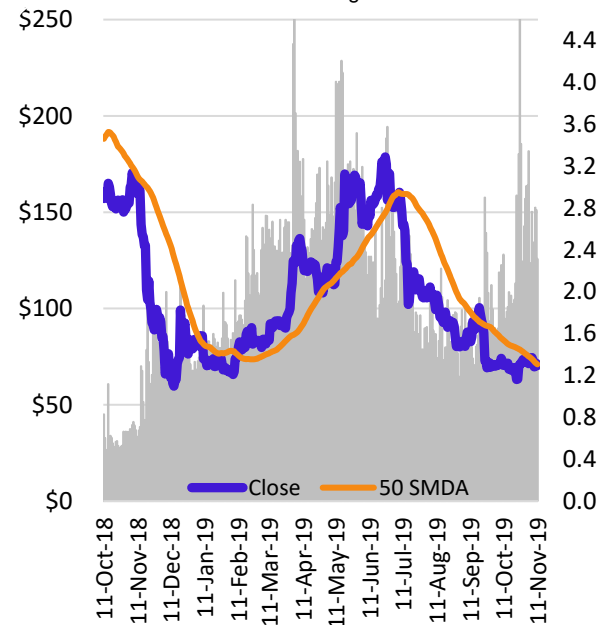
■ Current Environment:

- The price of Dash fell in the first half of last week before stabilizing at lower levels in the second half of last in both USD and BTC terms.
- Volumes were lower week-over-week, averaging 2.5 million coins per day.

Technical Trading Score*:	LOG IN TO VIEW
Date Of Inception:	2014
Primary Use:	CURRENCY
Coins Outstanding:	9 mm
Maximum Coins:	22 mm
POW or POS:	STAKE
Current Mining Fee (USD):	~\$0.006
Website:	https://www.dash.org/

Coin Profile

Dash is an open source peer to peer cryptocurrency. On top of Bitcoin's feature set, it currently offers instant transactions, private transactions and operates a self-governing and self-funding model that enables the Dash network to pay individuals and businesses to perform work that adds value to the network. Dash's decentralized governance and budgeting system makes it a decentralized autonomous organization.



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Technical Scoring

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Crypto Market



Dash

Overall Technical Score



Relatively Unfavourable

Short Term



Medium Term



Long Term



Ethereum Classic (ETC)

C\$6.50 (US\$4.91)

November 12, 2019 2:00 pm

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■ ETH Classic News:

- No significant ETC related news last week.

■ Trading History YTD:

- After trading sideways for most of the first quarter of 2019, the price of ETC benefited from broader spring momentum in the cryptocurrency space, trading generally positively from April through the end of June, before correcting again July onwards in terms of USD.
- However, ETC has generally underperformed other major cryptocurrencies with its price trending negatively throughout most of the year to date in terms of BTC.

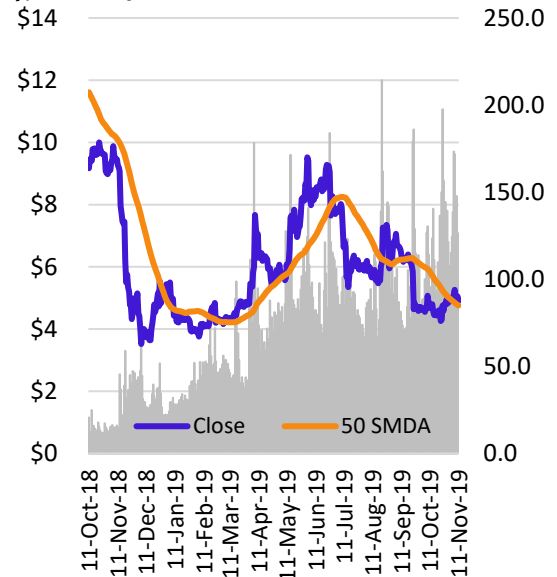
■ Current Environment:

- The price of ETC trended sideways to slightly negative in USD terms last week, resulting in it gaining against BTC as the price of BTC fell throughout most of the week.
- Volumes were higher week-over-week, averaging 146.2 million coins per day compared to the previous week's volumes of 126.3 million coins per day.

Technical Trading Score*:	LOG IN TO VIEW
Date Of Inception:	2016
Primary Use:	SMART CONTRACTS
Coins Outstanding:	112MM
Maximum Coins:	NO MAX
POW or POS:	WORK
Current Mining Fee (USD):	~\$0.002
Website:	https://ethereumclassic.org/

Coin Profile

Ethereum Classic is an open-source, public, blockchain-based distributed computing platform featuring smart contract (scripting) functionality. It provides a decentralized Turing-complete virtual machine, the Ethereum Virtual Machine (EVM), which can execute scripts using an international network of public nodes. ETC has a value token called "ether", which can be transferred between participants or stored in a cryptocurrency wallet.



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Technical Scoring

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Crypto Market



Ethereum Classic

Overall Technical Score



Relatively Unfavourable

Short Term



Medium Term



Long Term



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