



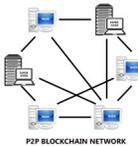
# HOW TO

Building successful online business process management softwares and web marketing solutions for all industries.

Technology  
Applications  
History  
numbers  
get started



## INTRODUCTION TO BLOCKCHAIN TECHNOLOGY



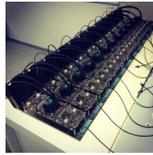
While a popular subject, the majority of people including bankers, traders, scientists, and developers have a very limited understanding about cryptocurrency and blockchain technology in general.

A blockchain is a decentralized, distributed and public encrypted digital ledger/database that is used to record transactions, or any information, across many computers so that the record cannot be altered retroactively without the alteration of all subsequent blocks and the consensus of the network.

When someone requests a transaction, or any info, to be validated and recorded into the blockchain, the transaction/info is broadcasted to a P2P (peer to peer) network of computers called nodes. The network of nodes validates the transaction and user's status using a mathematical algorithm.

The blockchain only contains validated and encrypted info/transactions which prevents multiple recording, tampering of the info or double spending for currencies. The validation process relies on data being encrypted using algorithmic hashing. The resulting encrypted value is a series of numbers and letters that does not resemble the original data and is called a hash.

Mining is the process of verifying and adding transaction records or info to the blockchain. For cryptocurrencies it is also how new coins are released. Anyone with sufficient computing power can participate in mining. The mining process involves compiling recent transactions into blocks to solve mathematical algorithms, cryptographic proof-of-work protocols, and puzzles. The first to solve the puzzle gets to place the next block on the blockchain and claims the rewards. The rewards for miners could be fees and/or for cryptocurrencies the newly released coin or part of it.



Miner rig

### NODES AND SUPER NODES

A hash function is any function that can be used to map data of arbitrary size to data of a fixed size. The values returned by a hash function are called hash values, hash codes, digests, or simply hashes. Hash functions are often used in combination with a hash table, a common data structure used in computer software for rapid data lookup. Hash functions accelerate table or database lookup by detecting duplicated records in a large file. One such application is finding similar stretches in DNA sequences. They are also useful in cryptography.

### MINERS

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### HASHING

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## USE OF BLOCKCHAIN TECHNOLOGY FOR CRYPTOCURRENCIES & MORE...

### TYPES OF BLOCKCHAIN

#### Consortium blockchains

Semi-decentralized & permissioned. Instead of a single entity controlling it, a number of companies might each operate a node on the network. The consortium chain admin restricts users' reading rights and allows a limited number of trusted nodes to execute a consensus protocol.

#### Public blockchains

No access restrictions. Anyone with an internet connection can send transactions to it, as well as become a validator.

#### Private blockchains

Access is permissioned. One cannot join it unless invited by the network administrators. Participant and validator access is restricted.

### ADVANTAGES OF BLOCKCHAIN

1. High quality data
2. Transparency (transactions open to network)
3. Privacy because no centralized controlling entity
4. Security with multi-levels of encryption and keys
5. Simplification, integrity, immutability, reliability
6. Cost per transaction
7. Faster transaction time
8. Auditability
9. Trustless
10. Anonymous
11. No censorship-control (today)

### DISADVANTAGES OF BLOCKCHAIN (TODAY)

1. Limited data capacity
2. Young technology, cultural adoption
3. Privacy because the info is shared in the peer to peer
4. Security no bullet proof system (Bitcoin, Ethereum\*)
5. Uncertain regulatory status
6. Cost of running the network (computer power)
7. Slower verification and encryption (size of the chain)
8. Limited Scalability (Storage & power constraints)
9. Access to external data, integration
10. Unsustainable consensus system (today)
11. Complexity & cost for business to access technology

### HOW MUCH MONEY DO YOU WANT TO MAKE?

Seriously, you should ask yourself this question as it will help you determine the budget needed to build your Blockchain platform. We are willing and able to help you whenever you are ready to start. Beyond blockchain technology we provide integrated business process management systems: CRM, ERP, HR, SEO, SMO, LEADS, etc...

Today educated consumers and governments are pressuring marketers to commit to environmental and social sustainability practices. Transparent and unalterable blockchain technology is perfect for trusted trackability of the supply chain.



### GET THE BEST CMS\* WEBSITE

To get ahead of your competition you need an online strategy that changes the way you communicate with your employees, partners and customers. You have to integrate web management and marketing tools into your business.



YES YOU CAN MANAGE YOUR COMPANY FROM YOUR PHONE

Our CMS packages start at \$1950

### SUSTAINABLE SUPPLY CHAIN

It starts with organic non-GMO tomato seeds planted by farmers using organic farming practices to ending up on your dinner table through a green marketplace. The trusted, easiest and most transparent technology to record the journey is blockchain.



## Step 1

### DECIDE WHAT YOU NEED BLOCKCHAIN FOR

Starting a business powered by Blockchain, or starting to use Blockchain technology in your existing business, is just like adopting a newer system with all the positive and negative aspects to using a nascent technology. Many applications of Blockchain are still on the drawing board or in their beta version. A lot of entrepreneurs have found uses for blockchain in their projects and have raised a considerable amount of funding. The factors of time/speed, as well as trend, are crucial with Blockchain. The most important task at this stage is to find a business/activity with a problem that Blockchain technology could resolve or improve drastically.

## Step 2

### PURCHASE IT, MAKE IT, OR USE AN OPEN SOURCE

Now that you found an industry application and/or a business process problem to resolve with Blockchain technology you have to choose if you want to use an available platform or if you want to build one. If you want to use an existing platform you can buy one or use an open source. In both cases you need to do extensive research to choose the one that fits your purpose and your budget (recurring fees). Finally, if you decide to build your own or to build on an open source platform you will need a full-stack developer with expertise in web technology like JavaScript, C++ and an understanding of modern cryptography, hashing, algorithm, P2P, and software life cycle.

## Step 3

### FINANCING YOUR BLOCKCHAIN PROJECT

Except for a few hiccups with crypto-currencies, blockchain is a web technology to reckon with. While it is still nascent, blockchain has a promising future. It is being featured by the media and everyone is talking about it, including potential investors. A good programmer capable of building or modifying a blockchain platform will cost you around \$150k-\$200k/year but financing your project will not be so difficult as there are currently more investors than there are projects if you have the right idea. Building a Blockchain platform might not be rocket science but it requires professional skills, discipline and comes with a lot of responsibility regarding coding. Particularly if your new platform deals with crypto-currency and/or sensitive data.

## Step 4

### TIME TO GET STARTED

You have a great idea that can be accomplished using Blockchain and you've got the financing. Before you hire a programmer it would be great for you to take an accelerated course about Blockchain technology or crypto-currency. Without going in debt with accelerated coding and cryptography course proposed by MIT, Princeton, Harvard, or IBM you could find a seminar about getting more knowledge of how to use Blockchain for business. Confident of your acquired knowledge it is time to create a blue-print / specification book and get started on a dev. server to create a proof of concept. Technical expertise and passion for your project will do the rest. Many forums are available on the internet about the subject.

## Step 5

### TEST AND LAUNCH YOUR BLOCKCHAIN, OR NOT

Find potential security, performance and networking problems and bugs using the proof of concept. Fix then test and test again (dev, alpha, beta...) until everything works like a charm. Have other programmers test it until you have a stable and fully functional platform. Before you start the whole process you have to ask yourself, do I really need a Blockchain? At this stage unless you have the idea for a Blockchain application that no one else has thought about, it might not be what you need. Give us a call at (727) 725 1333 and we will tell you if Blockchain is right for you and give you a choice of alternative solutions if we sincerely think it is not. Although very trendy and great for limited data, Blockchain is not always the answer. Current public and private blockchain platforms have experienced scaling and security issues so it isn't tomorrow that they will replace standard databases like SQL or Oracle for business.



# HOW TO

# CRYPTOCURRENCY (727) 725-1333

## TOOLBOX

### 50 CRYPTOCURRENCIES THAT ARE STILL STANDING

Year	Name	Market cap	08/18	Price / USD	Circulating #	Max/cap #	Code
2009	Bitcoin	\$ 108,247,848,082.00	\$6,291.46	17,205,525	21,000,000		BTC
2015	Ethereum	\$ 32,383,281,653.00	\$319.74	101,279,523			ETH
2013	Ripple XRP	\$ 11,871,762,423.00	\$0.30	39,299,874,590			XRP
2017	Bitcoin Cash	\$ 9,825,794,630.00	\$575.34	17,289,125	21,000,000		BCH
2017	EOS.IO	\$ 4,590,231,803.00	\$5.17	906,245,118	1,006,245,120		EOS
2014	Stellar	\$ 4,110,739,342.00	\$0.22	18,771,403,505			XLM
2011	Litecoin	\$ 3,428,861,173.00	\$59.31	57,814,609			LTC
2018	Cardano	\$ 2,914,244,117.00	\$0.11	25,927,070,538	31,112,483,745		ADA
2015	Tether	\$ 2,411,623,515.00	\$1.00	45,497,850			USDT
2014	Monero	\$ 1,535,748,785.00	\$93.65	16,266,706			XMR
2017	IOTA	\$ 1,505,798,781.00	\$0.54	2,779,530,283	2,779,530,283		MIOTA
2017	Tron	\$ 1,486,140,266.00	\$0.02	65,748,111,645	99,000,000,000		TRX
2015	Eth. Classic	\$ 1,392,807,017.00	\$13.43	103,731,680			ETC
2014	Dash	\$ 1,364,532,015.00	\$167.48	8,253,521			DASH
2014	NEO	\$ 1,204,783,334.00	\$18.54	65,000,000			NEO
2018	Binance coin	\$ 1,113,998,141.00	\$11.66	95,512,523			BNB
2014	NEM	\$ 981,962,160.00	\$0.11	8,999,999,999			XEM
2018	Tezos	\$ 936,805,800.00	\$1.54	607,489,041	763,306,930		XTZ
2016	Zcash	\$ 722,706,678.00	\$158.48	4,560,131			ZEC
2018	OmiseGO	\$ 564,924,709.00	\$4.03	140,245,398			OMG
2018	VeChain	\$ 505,997,145.00	\$0.01	55,454,734,800			VET
2018	Ox	\$ 465,520,913.00	\$0.87	537,585,815	1,000,000,000		ZRX
2017	Qtum	\$ 418,040,122.00	\$4.71	88,810,608	100,810,648		QTUM
2017	Lisk	\$ 363,561,769.00	\$3.34	108,979,378	124,224,052		LSK
2017	Bitcoin Gold	\$ 345,370,197.00	\$20.11	17,174,649 BTG	17,274,649		BTG
2016	Decred	\$ 343,086,253.00	\$41.46	8,274,957			DCR
2012	Bytecoin	\$ 333,336,507.00	\$0.00	183,890,481,254			BCN
2017	Maker	\$ 318,372,364.00	\$476.44	668,228			MKR
2014	BitShares	\$ 308,688,766.00	\$0.12	2,649,980,000			BTS
2014	DigiByte	\$ 289,299,925.00	\$0.03	10,650,817,327			DGB
2013	Dogecoin	\$ 278,148,538.00	\$0.00	15,683,245,320			DOGE
2017	Zilliqa	\$ 273,565,523.00	\$0.04	7,567,552,268			ZIL
2017	ICON	\$ 266,815,175.00	\$0.69	387,431,340	800,460,000		ICX
2014	Verge	\$ 204,408,745.00	\$0.01	15,172,086,051			XVG
2016	Waves platform	\$ 193,933,285.00	\$1.94	100,000,000			WAVES
2014	Auroracoin	\$ 100,405,140.00	\$0.19	11,266,323			AUR
2013	Nxt	\$ 77,262,216.00	\$0.07	998,999,942			NXT
2012	Peercoin	\$ 52,224,358.00	\$2.12	24,905,199			PPC
2011	Namecoin	\$ 36,120,426.00	\$2.45	14,736,400			NMC
2014	Vertcoin	\$ 35,224,848.00	\$0.77	45,498,025	84,000,000		VTC
2013	Primecoin	\$ 23,149,991.00	\$0.95	24,563,085			XPM
2013	Feathercoin	\$ 1,659,923.00	\$0.06	209,244,600			FTC
2013	Gridcoin	\$ 8,414,020.00	\$0.02	390,312,753			GRC
2014	Synereo AMP	\$ 7,473,220.00	\$0.07	100,728,564			AMP
2017	BitConnect	\$ 6,676,022.00	\$0.68	9,819,280	10,591,865		BCC
2014	PotCoin	\$ 6,550,486.00	\$0.03	220,440,826			POT
2011	SwiftCoin	\$ 994,227.00	\$0.26	3,884,635			BITS
2014	MazaCoin	\$ 332,158.00	\$0.00	1,055,345,280			MZC
2014	Titcoin	\$ 120,135.00	\$0.00	49,898,202			TIT

### RESOURCES (useful links)

- [COINMARKETCAP](#) Cryptocurrency market cap and other info website
- [BLOCKCHAIN BY MIT](#) The blocks in Blockchain
- [IBM BLOCKCHAIN](#) Blockchain for Dummies, the IBM version.
- [The richest in cryptocurrency](#) Forbes list of the richest in cryptocurrency
- [TUNEL BEAR](#) If you need a proxy
- [MYTH BUSTER](#) Investor's point of view
- [OPINION](#) A recent article on the Wallstreet Journal
- [SOUTH KOREA](#) Is full legalization of cryptocurrency a good thing?
- [INDUSTRY NEWS](#)
- [AND THE WINNER IS](#) Someone found a way to make money with crypto-currencies

The information compiled in this document is to give you a general idea of Blockchain technology and cryptocurrencies. Data on the table above were compiled on August 2018 when this document was published. Due to the volatile nature of the cryptocurrency market you should check the current rates. We do not have affiliation with any crypto-currency, exchange nor wallet website and the links included in this document are just for informational purposes. All information and content contained in this website are provided solely for general information and reference purposes. Quick Social LLC. makes no statements, representation, warranty or guarantee as to the accuracy, reliability or timeliness of the information and content contained in this info-chart. The contents contained in this info-chart is copyright protected. You can download it and share it but you are not authorized to sell it. All links to other website and member to trademark brand are property of their owners and are provided as independent non affiliated resources or information websites.

OK, after reading this info chart you know a little more about Blockchain technology and Cryptocurrencies and you want to enter the game.

### HOW TO GET CRYPTOCURRENCIES

You have two ways to get a cryptocurrency, mining it (read page 1) or purchasing it (there might be another way if you are an extremely good hacker). Assuming you do not have the skills to steal it or the time and resources to mine it you can always purchase it on a cryptocurrency exchange website. For your convenience we have listed some below. The best advice in choosing an online currency exchange is to look at the size (amount of transactions/users), the time they have been in business, and the type of exchange: are they Crypto to Crypto\* or Fiat to Crypto\*? It is entirely up to you to choose the one you trust the most, with E-currency there is no failsafe nor guarantees. E-currency exchange websites Hong Kong based Bitfinex reimbursed over \$17 million in bitcoins after being hacked, and Gemini is the first exchange insured by the FDIC.

### E-CURRENCY EXCHANGE WEBSITES

NAME	FOUNDED	LOCATED	SIZE	TYPE
<a href="#">Coinbase</a>	2011	US, EU, AU, ASIA	\$5555	Fiat/Crypto
<a href="#">Gemini</a>	2014	US	\$5555	Fiat/Crypto
<a href="#">Binance</a>	2017	China, Japan	\$5555	Crypto/Crypto
<a href="#">Bitfinex</a>	2012	Hong Kong	\$5555	Crypto/Crypto
<a href="#">Kraken</a>	2011	Canada, EU, Japan	\$555	Crypto/Crypto

If you are a criminal or simply want to trade under the radar you may want to avoid these exchanges, even if they are probably safer and easier to use, as they are also the most controlled by the US, EU and Chinese governments. If you prefer to be anonymous feel free to search the dark web not Google. Today most exchanges propose to provide you with a Wallet to store your cryptocurrencies.

### TYPE OF WALLETS

Although you need a wallet to trade cryptocurrency coin values they are not technically stored in your wallet. The wallet is just a piece of software that analyses the blockchain and allows you to transfer and receive coin values. This piece of software (wallet) can be on your computer, on the cloud (in someone else's computer) or even in a USB key in your pocket or personal safe. With your wallet you receive 2 keys (passwords). The first is the public key which is the address where people send you coin values. The second is a secret key which allows you to access your coin values and sign your transactions on the Blockchain.

### GLOSSARY

- Crypto to Crypto** = trade/exchange between 2 crypto currencies
- Crypto to Fiat** = trade/exchange between crypto currencies & fiat money.
- Fiat money** = a government-backed currency.
- Address or public key** = a string of alphanumeric characters used to send or receive transactions.
- A Block** = a package of permanent data carried on the Blockchain.
- Token** or cryptocurrency = representation of a digital asset.
- Consensus** = when all participants of a network agree on the validity of a transaction.
- Genesis Block** = the first block of the Blockchain.
- Mining** = the act of validating a transaction resolving algorithm puzzle.
- Node** = a copy of the ledger maintained by a network participant.
- Peer to peer** = an interaction between parties in a decentralized network.
- Proof of Work** = the original consensus algorithm in a Blockchain.
- Hash** = cap used to confirm transactions in the block of data.

### CONCLUSION

Although cryptocurrencies opened the eyes of many regarding Blockchain technology, and became a POW (proof of work) that currency doesn't have to be controlled by a centralized entity, it is not yet working as it should and here is why: As many I am seduced by the idea of escaping the globalized control of what we do with our money but the catch 22 is that without any control everyone can create an initial coin offering (ICO) to create a new currency. Over the past 8 months, 800+ cryptocurrency projects have failed and investors have lost all their investments (there is no failsafe with crypto-currency). <https://deadcoins.com>. Beside the fact that Bitcoin has no intrinsic value, except perhaps for speculation and illegal activities, a little common sense and a bit of googling will tell you that Bitcoins are accepted almost nowhere as a mean of payment which is normal as a currency that can fluctuate between 10-20% on a daily basis cannot be used in regular store transaction. Another inconvenience to using bitcoins as a means of payment transfer is that is very slow and sometimes takes 1 hour to confirm a transaction. On the other end, it is how a minority of people became billionaires by investing in the promises of this new crypto-currency Eldorado but it is a huge "mirror aux alouettes". 1500+ currencies for a 300 billion market cap equal to the US deficit with China. The real question is which currency will you have in your e-wallet in 2020 to go buy your morning baguette or anything else for the matter? I personally think the immutable and transparent blockchain technology could be used today to solve trust issues in supply chain traceability and other simple applications in need of impartiality, proof of property and time stamping. E-currencies will take much more trial and error, successes and failures.