BITCOIN. BLOCKCHAIN. ICOs. MIAMI. JANUARY 18-19.

The North American Bitcoin Conference

A part of the

World Blockchain Forum

Investments & ICOs

https://btcmiami.com/
It’s Not An Innovative Idea Until It Gets Rejected - Fast Company
<table>
<thead>
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<th>MAIN TOPICS LEARNED</th>
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<tr>
<td><strong>0</strong> Bitcoin 101: Cryptocurrencies and Mining</td>
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<td>Bitcoin was created by the pseudonymous Satoshi Nakamoto, however the underlying technology go back to the late 80s.</td>
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<td><strong>0</strong> Blockchain 101: Trust, Transparency, Infrastructure</td>
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<td>The concept of Blockchain originated with Bitcoin. It is fundamentally based on trust, transparency and infrastructure.</td>
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<td><strong>0</strong> Bitcoin &amp; Blockchain Movement</td>
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<td>The amount of companies working and releasing new services and products increases every day. How can we trust them?</td>
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<td><strong>0</strong> Implications in IT Curriculum Design and Instruction</td>
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<td>Many universities and training centers, private and public, are offering certificates and training. It’s time to think about our responsibility with students and their future.</td>
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What is Bitcoin?
Brief history of Bitcoin

2008-10 - Genesis
“Bitcoin: A peer-to-peer Electronic Cash System” by Satoshi Nakamoto
The paper explains the technical and economic foundation of trustless cryptocurrencies
First block mined
First transaction being done by Laszio Hanyecz. He paid 10K BTC for two pizzas

2011-1013 – Early Steps
The Foundation for Economic Education accept Bitcoin → First adopters
First venture capital investment → $25K for an app Glyphs
Largest error ever → For 6 hours there are two Bitcoin networks operating

2014-2015 - Adolescence
Investment keeps growing
New companies receive double digit funding
Main fall of the world’s first and largest bitcoin exchange: Mt.Gox
The NY State Department of Financial services issues business licenses

2016 – Present
Bitcoin reaches Gold Parity
Ups and downs → Highest value $17K
Some Fact about Bitcoin

**Bitcoins is not anonymous; it is pseudonymous**  
Everybody verify rules there are “no ways” to steal funds, cause inflation or other problems. The transactions are public but not associated with real-world identity.

**Bitcoins come from a Mining proces**  
Computer hardware is used to compute math problems. The first computer that solves the problem, earn Bitcoins.

**Bitcoins can be exchanged**  
The are market places where people can buy and sell Bitcoins  
https://www.coindesk.com/price/

**Bitcoins are saved in digital/hardware wallets**  
A software that store private keys associated with the Bitcoin address
What is Blockchain?
The main concepts of Blockchain

The “BLOCK”
- Blocks of data
- Blocks are “hashed”
- The “hashed” is included in the next block
- All blocks are linked and create a CHAIN
- All blocks are shared on a network of computers

The NETWORK
- The entire network reaches consensus
- Consensus is reached without a central intermediary
- All blocks are order chronologically

The SMART CONTRACT
- On a decentralized system, there is no need of intermediaries (remove middlemen)
  - Contracts are digitalized, stored and replicated on the system and supervised by the network of computers that run the blockchain.
Decentralized platforms

**Ethereum**
A distributed smart-contract platform that uses ether, its native digital cryptocurrency
Once of the first successful ICO
Fundamental platform of other projects
[https://www.ethereum.org/](https://www.ethereum.org/)

**Hyperledger Fabric**
Hyperledger Fabric is a blockchain framework implementation and one of the Hyperledger projects hosted by The Linux Foundation

**Corba**
Blockchain platform designed specifically for businesses.
[https://www.r3.com/about/](https://www.r3.com/about/)
BC-Enabled Use Cases: From healthcare to education

https://aws.amazon.com/partners/blockchain/
https://www.oracle.com/cloud/blockchain/index.html
https://dragonchain.com/

Thousands of startups Around the world
Implications in Higher Education
Universities leading the way

https://www.coursera.org/learn/cryptocurrency

https://its.law.nyu.edu/courses/description.cfm?id=12865

http://blockchain.mit.edu/how-blockchain-works

https://blockchain.berkeley.edu/

http://www.cs.cornell.edu/courses/cs5437/2016sp/

http://www.cs.jhu.edu/~abhishek/classes/CS601-641-441-Spring2018/class.html

https://faculty.fuqua.duke.edu/~charvey/550crypto.htm

https://online.stanford.edu/courses/cs251-bitcoin-and-crypto-currencies
"The technology most likely to change the next decade of business is not the social web, big data, the cloud, robotics, or even artificial intelligence. It’s the blockchain..."