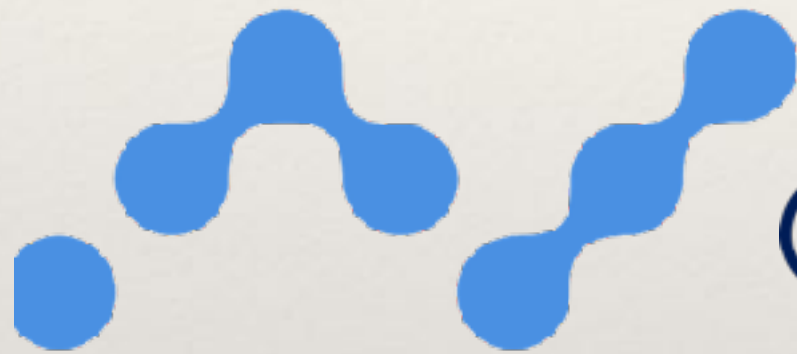


 **bitcoin**



CryptoKitties

 **ripple**



 **golem**



STELLAR



AUGUR



HYPERLEDGER



MAKER



IOTA




steemit

Implications of Blockchain Technology

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Blockchain Trade-offs: Strengths

- ❖ Trusted, transparent transactions and actions
 - ❖ *If you receive a bitcoin, you have it!*
- ❖ Censorship resistance
 - ❖ *People with unpopular political opinions can still operate in the financial networks!*
- ❖ Simple, fast long-distance value transfers
 - ❖ *Sending money to people in other countries can occur in a few seconds and cost pennies!*
- ❖ Extremely tamper-resistant
 - ❖ *You can't arbitrarily modify data already on the blockchain!*
- ❖ Pseudonymous / anonymous transactions
 - ❖ *It's possible to conduct private transactions on the Internet!*

Blockchain Trade-offs: Drawbacks

- ❖ Trusted, transparent transactions and actions
 - ❖ *If you receive a bitcoin, you have it!*
- ❖ Censorship resistance
 - ❖ *People with unpopular political opinions can still operate in the financial networks!*
- ❖ Simple, fast long-distance value transfers
 - ❖ *Sending money to people in other countries can occur in a few seconds and cost pennies!*
- ❖ Extremely tamper-resistant
 - ❖ *You can't arbitrarily modify data already on the blockchain!*
- ❖ Pseudonymous / anonymous transactions
 - ❖ *It's possible to conduct private transactions on the Internet!*

Overall Trends

Decentralization

Transparency

Digitization

Specific Current Use Cases

- ❖ Bitcoin
- ❖ Brave
- ❖ Augur
- ❖ Cryptokitties
- ❖ Golem

Bitcoin



- ❖ An incredibly secure network for sound value transfer
- ❖ Limited to 21 million bitcoins
- ❖ Provides pseudonymous transactions

Brave



- ❖ A browser/ecosystem that allows the author to be paid for content, and for the user to pay for content with BAT (Basic Attention Tokens)
- ❖ Even works for websites that are not part of the Brave network

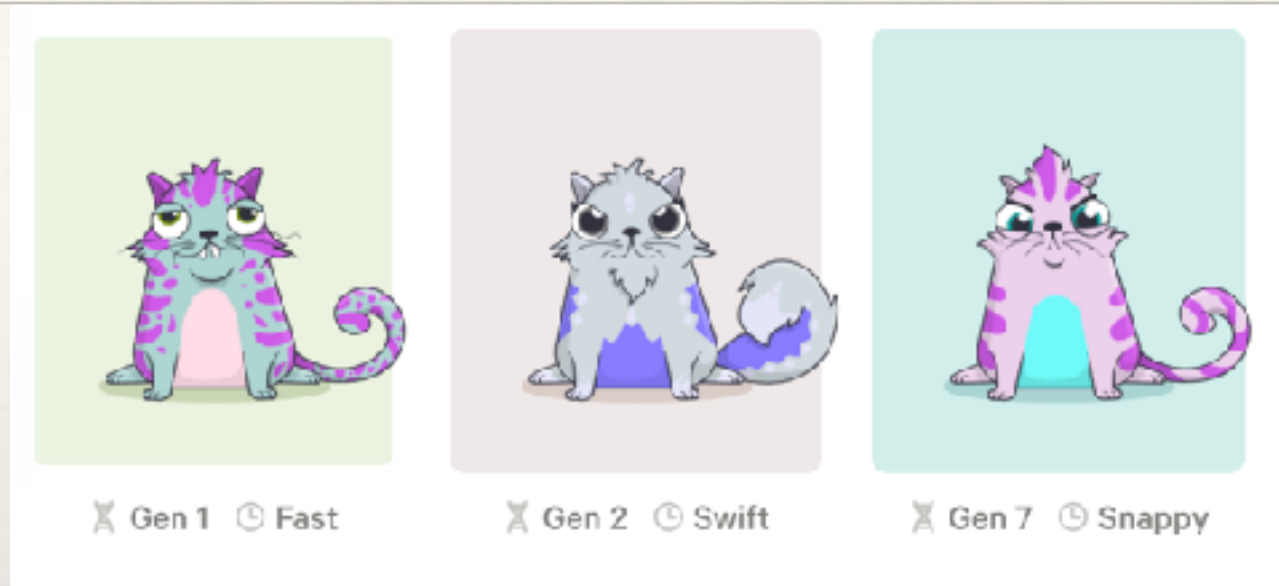
Augur



AUGUR

- ❖ A decentralized prediction marketplace running on Ethereum
- ❖ Allows you to bet not just on sports, but events
- ❖ Can be used for insurance / options / etc.

Cryptokitties



- ❖ A collectible game where you buy and breed "kitties"
- ❖ Rarity and ownership guaranteed by the blockchain - imagine baseball cards with mathematically guaranteed rarity

Golem



- ❖ Seller: "Rents out" their computer when they are not using it
- ❖ Buyer: Buys computing power from sellers
- ❖ Get paid in GNT ("Golem Network Tokens")
- ❖ Currently being used for Blender video rendering, but future versions will support arbitrary computation

Future Possible Use Cases

- ❖ Fairer market-making (ride-sharing, stocks, bonds)
- ❖ History storage (Employment history, commit schemes)
- ❖ Identification (Social Security numbers)
- ❖ Payments (Credit cards, Paypal)
- ❖ Education (Diplomas)
- ❖ Real estate (Eliminate need for title insurance)
- ❖ Reducing corruption (transparent transactions)
- ❖ Elections (Prove validity without paper)