

Difference between Ethereum and Bitcoin Networks - High Level

- Ethereum is considered a smart contract platform
 - Complex and feature-rich
 - (Quasi) Turing complete scripting language
- Bitcoin: Decentralized Asset
 - Simple and robust
 - Simple stack-based language; not Turing complete

Difference between Ethereum and Bitcoin

- Fundamental Level

- Ethereum is account-based instead of UTXO-based
- Quasi-Turing complete programming language
 - Significantly more powerful than Bitcoin Script
 - Enables smart contracts
- Ether is not the primary objective of the network rather a utility required for incentive alignment for all participants
- Ethereum will move from POW to POS whereas Bitcoin likely will remain POW

Difference between Ethereum and Bitcoin

- Detail Level

Block Times:

- Ethereum's block creation time is roughly 12-15 seconds
- Bitcoin's block creation time is roughly 10 minutes

Others:

- Differences in the POW implementation (Ethash vs. Sha256)
 - Ethash is currently ASIC resistant
- Ethereum is actively rolling out improvements and updates to the platform