# Basics of Blockchain and Security

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# $ whoami

1. Blockchain and Security Enthusiast
2. Maths Lover
3. Independent Researcher

# What is our Aim??

To bring in more women into this domain

Let us give each others chance to speak and share knowledge

$ locate @freak_crypt

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# Agenda:

1. Cryptocurrencies
2. Blockchain
3. Smart Contracts
4. Security - Why, How and Where??

# What is Cryptocurrency??

# $ cat Cryptocurrency

1. Virtual currency
2. Works as a medium of exchange
3. Uses strong cryptography for transactions

# $ cat Examples | grep cryptocurrency

1. **Bitcoin (BTC)**
2. **Ethereum (ETH)**
3. **Ripple (XRP)**
4. **Bitcoin Cash (BCH)**
5. **Stellar Lumens (XLM)**

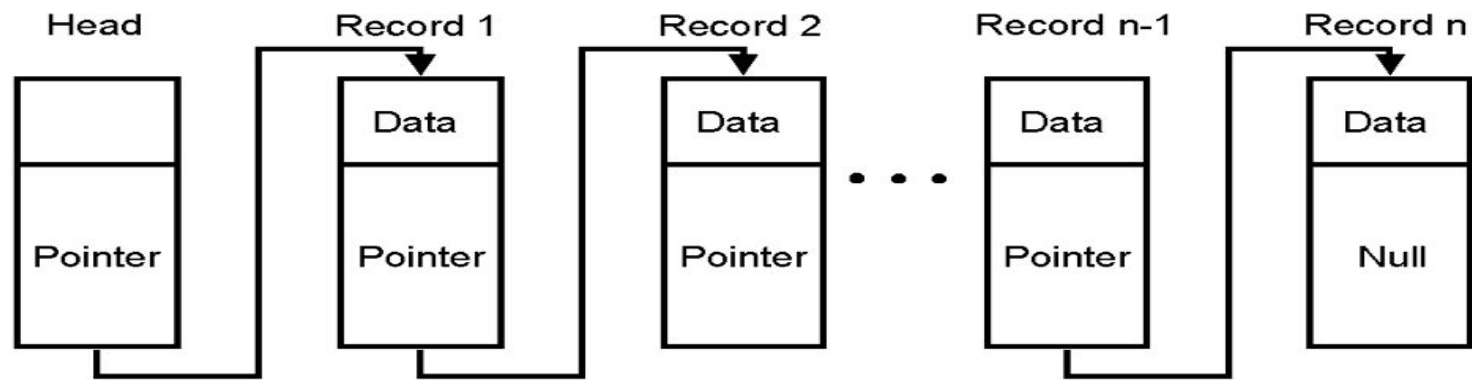   more...

# What do all cryptocurrencies have in common??

# $ nano Blockchain

1. Chain of Blocks
2. Blocks are linked together with the help of hashes
3. The hash of each block is linked to it's previous hash

# $ cat Blockchain | grep "Key Points"

1. Decentralised
2. Immutable
3. Transparent Anonymous

Head     Record 1     Record 2     Record n-1     Record n

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# nano Smart Contracts

1. A piece of code
2. Computerized transaction protocol
3. Works on conditions

# $ locate Security

1. Wallets
2. Web Applications
3. Mobile Applications
4. Smart Contracts

# $ find / -name Questions.ask 2 > /dev/freak_crypt

# References:

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