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Cryptocurrency

- Blockchain trilemma
  - 1. Decentralization
  - 2. Security
  - 3. Scalability
- TOP 10 cryptos - Market Cap 2024
  - 1. Bitcoin (BTC)
  - 2. Etherium (ETH)
  - 3. Tether (USDT)
  - 4. Binance Coin (BNB)
  - 5. Solana (SOL)
  - 6. XRP (XRP)
  - 7. U.S. Dollar Coin (USDC)
  - 8. Cardano (ADA)
  - 9. Avalanche (AVAX)
  - 10. Dogecoin (DOGE)
- BitCoin ETF
  - GBTC
  - IBIT
  - BITB
  - BTCO
  - MAXI
  - BTF
  - XBTF
  - FBTC (Fidelity)
  - BITO
  - BITS
  - BITI
  - SHORT
- Crypto Wallets
  - SafePal Crypto Wallet
  - Coinbase Wallet
  - Crypto.com DeFi Wallet
  - Exodus Crypto Wallet
  - Coinbase Web3 Wallet
- Strategies
  - Staking
  - Buy and Hold BTC
  - Find breakout Alt Coins
    - Event driven
    - Scalping
  - Buy top 10 Crypto
  - Options on BITO volatility
  - Invest in Crypto-related businesses
    - MicroStrategy Inc (MSTR)
    - Coinbase Global Inc (COIN)
    - NVIDIA Corp. (NVDA)
    - Marathon Digital Holdings Inc. (MARA)
    - Block Inc. (SQ)
    - Riot Platforms Inc. (RIOT)
    - Advanced Micro Devices Inc. (AMD)
    - PayPal Holdings Inc. (PYPL)
    - CME Group Inc. (CME)
- Staking
  - Allows you earn interest on your token while keeping the token. Similar to a savings acct, earning interest.
  - Validators
    - do the heavy lifting — they verify new transactions and add them to the blockchain. In exchange, they may receive a cut of fees and newly created tokens. Becoming a validator is a commitment that requires running a full-time node (or computer) and staking your own token. If you make an error or act maliciously (or even if your internet connection is glitchy) you could lose some of your staked tokens.
  - Delgators
    - stake their tokens indirectly via a trusted validator. This is a much lower-commitment version of staking. But it still requires research — if the validator you pick acts maliciously or makes errors you could lose some or all of your staked tokens
- Trading Platforms
  - Coinbase
  - Kraken
  - Gemini
  - KuCoin
  - crypto.com
  - BYDFI
  - Fidelity (BTC & ETH only)
- Taxes
  - https://coinledger.io/
- BitCoin
- Etherium
- Alt Coins
- Dapps (decentralized apps)
- DeFi (decentrailized finance)
  - Lending, borrowing, trading applications
  - umbrella term for financial services on public blockchains, primarily Ethereum
  - With DeFi, you can do most of the things that banks support — earn interest, borrow, lend, buy insurance, trade derivatives, trade assets, and more — but it's faster and doesn't require paperwork or a third party.
- NFT (Non-fungible tokens)
  - NFT Markeplaces
    - Foundation.app
    - Rarible.com
    - opensea.io
  - Digital asset (art, music, videos, in-game items, etc)
  - Each has a digital signature
  - Create digital scarcity
  - Like artwork - based entirely on what somee else will pay for it
  - Bought/sold online with crypto
  - Get exclusive ownership rights. Digital bragging rights
  - Exists on a blockchain (typically on Ethereum)
  - Owner gets a digital file
  - HOW
    1. Get a digital wallet
    2. Purchas crypto (Ether) on a platform (coinbase)
    3. Move it from exchange to wallet
    4. Shop on an NFT Marketplace
- Education
  - https://www.coinbase.com/learn/crypto-basics
  - https://www.forbes.com/advisor/investing/cryptocurrency/
  - https://learn.saylor.org/course/view.php?id=468
  - https://www.fidelity.com/learning-center/trading-investing/crypto
- Research/Websites
  - http://coinmarketcap.com
  - https://www.coindesk.com/
- News
  - https://coinwire.com/
  - https://cryptonews.com/
  - https://decrypt.co/
  - https://www.coinbureau.com/
  - https://www.theblock.co/
  - https://u.today/
  - https://cointelegraph.com/
- Blockchain
  - Distributed public ledger that records transactions
  - Layer 1
    - Ethereum
      - Ether is Ethereum netowrk's token
      - Not created to be digital money.
      - Created as a global, decentralized computing platform that takes blockchains and extends the attributes to applications.
      - Finance tools, games, etc are running on the Ethereum blockchain.
  - Layer 2 (sidechain)
    - Polygon
      - Proof of Stake (POS)
      - Faster than Ethereum / lower transaction cost
      - MATIC is Polygon's native cryptocurrency.
      - Polygon's main goal is to provide faster and cheaper transactions on Ethereum. It does this by using sidechains, which are stand-alone blockchains that run alongside the Ethereum mainnet. Polygon handles transactions on a separate Ethereum-compatible blockchain and then returns them to the main Ethereum blockchain after post-processing.
    - Solana (SOL)
    - Cosmos (ATOM)
  - Cardano
    - ADA is Cardano network's token
    - goal is to be the most environmentally sustainable blockchain platform