

What are blockchain tokens?

Blockchain tokens are digital assets that are created and managed on the blockchain. They represent ownership or access rights to a variety of assets, such as cryptocurrencies, digital collectibles, or real-world assets like real estate or company shares.

What are blockchain tokens? (contd.)

They are used to facilitate various functionalities such payment, governance, decentralised finance (Defi), voting etc on the blockchain. They can also be used as a store of value representing assets in the real world, or internally in that blockchain as a means to facilitate transactions within that blockchain i.e gas fees

Utility Tokens: These tokens provide access to a product or service within a blockchain ecosystem. They are often used for crowdfunding projects through Initial Coin Offerings (ICOs).

Security Tokens: These tokens represent ownership of a real-world asset, such as equity in a company or debt. They are subject to securities regulations and offer investors certain rights, like dividends or voting privileges.

Asset Tokens: These tokens represent physical assets, like real estate or commodities. They allow fractional ownership and easier transferability of traditionally illiquid assets. E.g Gold.

Governance Tokens: Allow holders to vote on protocol changes (e.g., **UNI** for Uniswap)

Difference between Coins and Tokens

Coins

- Coins are built into the blockchain (native to it's own blockchain technology).
- Coins requires significant resources to create.
- A blockchain can only have one coin.
- Coins are used to facilitate internal blockchain operations such as gas fees and transactions.
- Coins are used to secure the blockchain network through mechanisms such as proof-of-work (POW) and proof-of-stake (POS).
- Examples of coins: Bitcoin (BTC), Ethereum (ETH),
 Starknet (STRK).

Tokens

- Built on top of an existing blockchain.
- Relatively easy to create.
- A blockchain can have as many tokens as possible.
- Used as representation of real-life of assets on the blockchain.
- Examples of tokens: USDT, USDC, DAI.

Categories of Tokens

- Fungible tokens (ERC20)
- Non-fungible tokens (ERC721)
- Others (e.g ERC-1155 Hybrid)

Fungible Tokens

- Not unique
- One unit of token can be interchanged for another
 e.g swap one 50 dollar with another, they still
 have same value.
- Tokens can be subdivided into small fractions e.g eth -> gwei -> wei.
- They are often associated with utility such as payment and representation of fiat currencies on the

Non-Fungible Tokens

- Every single token is unique
- They have properties that distinguishes them from another
- They cannot be subdivided into small fractions. They are often associated with digital arts on the
 blockchain. This makes them distinguishable from
 each other.
- Example includes: BAYC NFTs, Cryptopunks NFTs, etc

Let's code some tokens 🎻 🥡

Connect with me on X (<u>@ibs_dreamer</u>)