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<https://www.btcc.com/en-US/academy/crypto-basics/what-is-flow-crypto-an-ultimate-guide-for-beginners>

### What Is Flow Crypto? An Ultimate Guide for Beginners

## What Is Flow Crypto?

Flow crypto is a blockchain-based decentralized ecosystem and platform that provides scaling solutions for interactive experiences, decentralized application ([dApp](#)) projects, and blockchain-based games. The Flow network focuses on providing a scalable environment and architecture for fast transactions without congestion, to create an environment for non-fungible tokens, dApps, and games. [NFTs](#) can be created and traded just like any other cryptocurrencies, while the key difference is that each NFT is unique and has a different price, which is why NFTs are called collectibles.

[Flow](#) has its own project on the network, NBA Top Shot, and as the NFT market is booming, Flow could experience rising popularity as well. Flow offers upgradable smart contracts that can be patched to fix any bugs, a finality that is achieved in seconds, and an easy way to build dApps and create NFTs with Flow's easy-to-learn programming language, Cadence.

Flow resolves problems with scalability seen on the [Ethereum](#) platform without the use of sharding, instead of employing the efficient Proof of Stake protocol. That is how Flow enables the smooth running of operations and minimizes congestion on the network for dApps and blockchain games such as CryptoKitties.



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## How Flow Blockchain Works?

Flow uses the [Proof of Stake](#) (PoS) protocol to achieve scalability without using sharding, a common scaling technique for increasing speed and network capacity. Flow distributes the work on the network across the nodes that support the system, with different nodes assigned different tasks based on their technical capabilities. An increased blockchain throughput is achieved by separating non-deterministic processes (e.g. forming transactions into a block) from deterministic ones (e.g. executing that block of transactions).

In order to reduce redundant effort, Flow uses a multi-role, multi-node architecture. To scale the entire network in an efficient and cost-effective manner, Flow decomposes the verification process into four roles, assigning different tasks to different types of nodes. To increase efficiency, nodes split the tasks and participate in the validation of each transaction on the network. The four types of nodes are Collection Nodes, Consensus Nodes, Execution Nodes, and Verification Nodes.

## What Makes Flow Crypto Different?

Flow network makes for a unique project that offers a highly scalable environment for developers interested in creating and using NFTs, which have experienced a rise in popularity in recent times. Flow's architecture allows developers to build applications and cryptocurrency games on the platform without issues such as congestion.

Flow distributes the data and work on the network across different nodes, separated by their roles, so that the distribution enables scaling and an efficient ecosystem for blockchain developers. Flow might be a unique opportunity for investors who believe in the potential of NFTs and [blockchain](#) applications. Thanks to the efficient architecture, Flow enables fast finality for transactions and on-chain operations.



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## In Conclusion

Flow aims to provide effective and efficient solutions for scaling to allow developers to create and build applications and NFTs on top of the Flow network. Thanks to efficient scaling and fast validations, Flow is one of the newest and most prominent projects leveraging the potential of the NFT market and blockchain-based game development.

As NFTs and dApps grow in popularity, Flow has the opportunity to become one of the top blockchain networks of its kind.

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