



# YGGDRASH

YGGDRASIL + HASH

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## What's YGGDRASH?

TRUST-based Multi-dimensional Blockchains

**YGGDRASH** is a trust-based multi-dimensional public blockchain built with a vision to "Digitize everything into reality" to connect everything and to help businesses grow with a blockchain platform.

**YGGDRASH**'s main-net is a **STEM** chain, and each of **BRANCH** chains, connected to the **STEM** chain, can operate as an independent blockchain or a decentralized application.

In the **YGGDRASH** network, the cryptocurrency is **YEED** and the reputation of users is the key in the trust-based blockchain ecosystem to govern the network and to ensure integrity.

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## YGGDRASH (Trust-based Multi-dimensional Blockchains)

YGGDRASH is a public blockchain platform, provides services such as Dapp (Decentralized Application) and DAO (Decentralized Autonomous Organization) for any individuals, industries, and corporations, unlike others performing as one kind of cryptocurrencies.

The YGGDRASH project has begun with a vision to “Digitize everything into reality”; it can be applied to create and connect any assets such as cryptocurrency, real estate, stock market or brokerage services.

### What is new?

#### 1. Improved Data Capacity, Speed, and Scalability

##### “Crypto Kitty”

28th Nov., Ethereum network was paralyzed due to one Dapp, Crypto Kitty, that people can buy it using Ethereum; network transaction of Ethereum soared six times in one day. Many blockchains, including Ethereum, cannot separate each Dapp transaction but are bound together in one blockchain. For example, on the internet network, people cannot access to Google.com due to traffic on Facebook.com. In addition, each Dapp on Ethereum is an independent Smart Contract so that it is impossible to maintain the governance of each Dapp without binding itself to Ethereum network. If one Dapp is crashed, all other Ethereum networks of Dapp and ETH transactions are badly affected.

One Dapp in YGGDRASH ecosystem is an independent blockchain; each Dapp is not bound to the other blockchains, but each Dapp maintains network, governance, database, and services of its own. The beauty of YGGDRASH is that overload on one Dapp (such as Crypto Kitty) does not bother other networks and individuals using YGGDRASH blockchain can enjoy the fast and high quality of network. In addition, YGGDRASH provides Blockchain Start & Smart Kits, which help developers build their independent blockchain network.

#### 2. Downsizing Data

Downloading full node of blockchain takes 14 days on Bitcoin and 7 days on Ethereum.

YGGDRASH introduces Akashic Records and Block Box to minimize the size of block data. This will significantly reduce efforts preparing node and shorten delay from several days to less than an hour.

#### 3. “Zero” Transaction Fee - Reputation Scoring System

Users of Facebook under the current blockchain system should pay coins to push “Like”. (The fee here is for transaction fee for blockchain network, not for using Dapp of Facebook)

YGGDRASH adjusts the current fee structure of blockchain for real; YGGDRASH will evaluate the reputation of users and those with good reputation don’t need to pay for “Like”. Credible nodes entitle the right to participate the consensus process while securing reputation, not earning transaction fee. Also, YEED (a cryptocurrency in YGGDRASH ecosystem) can be used as a deposit for operators of Dapp and be used up automatically for building reputation. Eventually, the system using the reputation benefits users of low fees and operators of better reputation with YEED deposit.

#### 4. DPOA : Delegated Proof of Authority

Both POW and POS have each limitation and lead to time lag for transaction confirmation. An alternative for this problem, DPoS, questions the methodology how we trust someone with more stake, although it seems rationale to many.

YGGDRASH applies DPOA, a new concept of consensus algorithm, giving authorities to users and operators with high credit scores (reputation). This way assures independence, incentive, and scalability while increasing connectivity among participants.



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**YGGDRASH = Yggdrasil + Hash**

### Origin of “YGGDRASH”

*Yggdrasil is an immense mythical tree that connects wells of the world and locations from the underground and to the heaven; and the hash for blockchain transaction and network.*