

Blockchain Name

	Ethereum	Hyperledger Fabric	R3 Corda
Type	Public	Private	Consortium
Consensus Mechanism	Proof of Stake (PoS)	Pluggable (Rft by default)	Notary-based consensus
Permission Model	Open	Permissioned	Permissioned
Speed/TPS	~30 ~ 100 TPS (layer 1)	~1000+ TPS	~1000 TPS
Smart Contract Support	Yes - Solidity (EVM)	Yes - Chaincode (Go, Java, Node.js)	Yes - Notar/Java
Token Support	Native (ETH)	No native token	No native token
Typical Use Case	Decentralized apps, NFTs, DeFi	Private supply chains, Internal systems	Inter-bank settlements, trade finance
Notable Technical features	Large dApp ecosystem, EVM support	Modular architecture, private data sharing	Point-to-point privacy, legal compliance

Short Report

- Ethereum is a public blockchain - anyone can use it, build on it, or view its data. It's great for building decentralized apps (dApps) and supports smart contracts written in Solidity. However, it has relatively lower speed (around 30-100 TPS), which can be a limitation for large-scale apps without extra layers.
 - Hyperledger Fabric is a private blockchain, used mostly by companies that already trust each other. It's very fast (1000+ TPS), lets you control who can see or change what, and doesn't need a cryptocurrency to work. It's ideal for supply chain networks, healthcare, or internal enterprise apps.
 - R3 Corda is a consortium blockchain, often used by banks or companies working together. It's not public but it's not fully private either. Corda focuses on data privacy, supports smart contracts in Java/Kotlin, and works well for financial applications like inter-bank transfers.
- ∴ Ethereum for a decentralized app.
Hyperledger Fabric for a supply chain network,
R3 Corda for an inter-bank financial application.