BLOCKCHAIN

START!

WEB3,CRYPTO

DEFI,NFTS

HOW TO PLAY

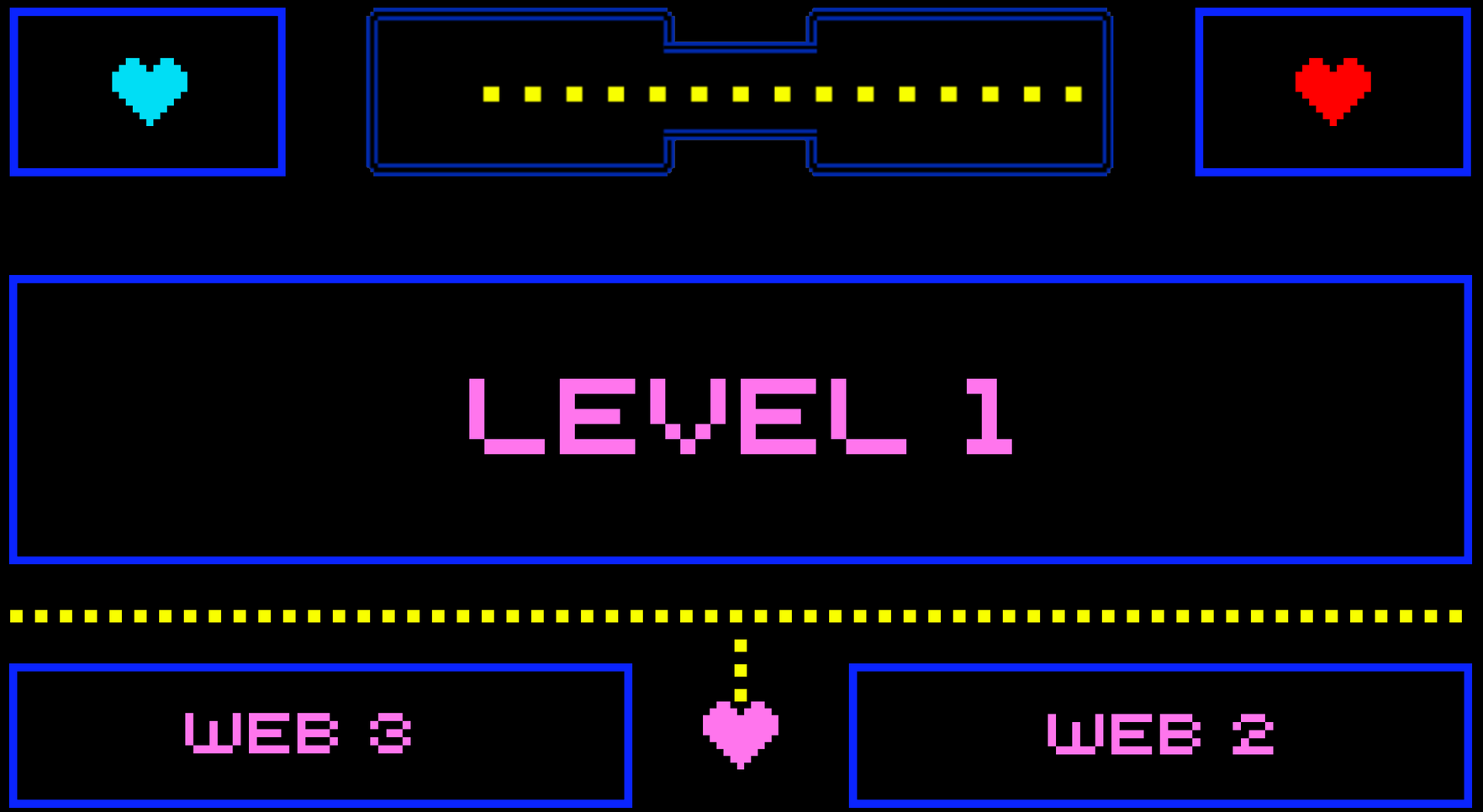
There are 3 different types of games!

WEB3

BLOCKCHAIN

SMART CONTRACTS


ARE YOU READY?
KSHiTiJ
SUYASH


LEVEL 1
WEB 3
WEB 2

ANSWER THE QUESTION

IS IT WEB 2 OR WEB 3 THAT YOU CURRENTLY USE ???

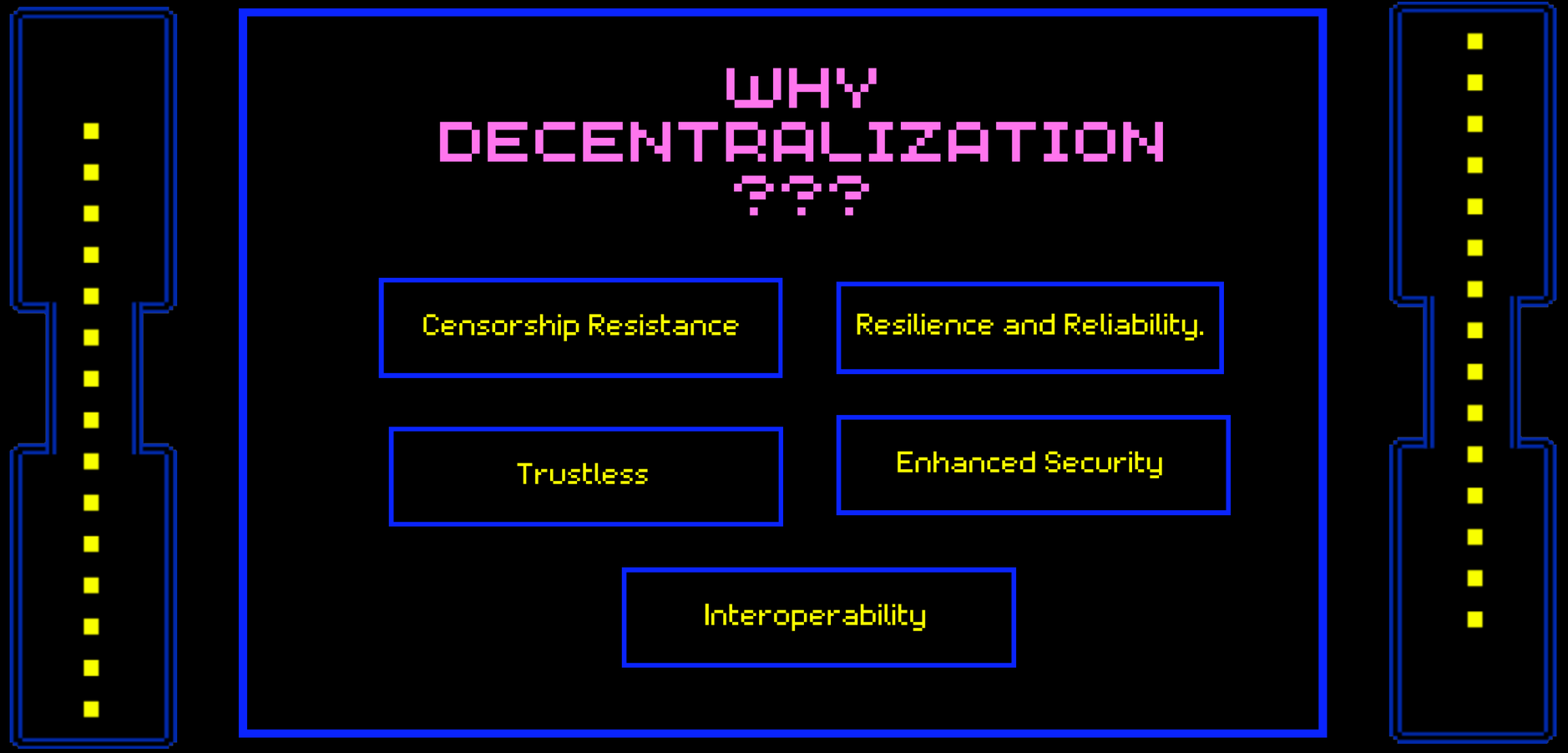
CORRECT ANSWER

WEB 2.0

THEN ,WHAT DO YOU
MEAN BY WEB 3 ?

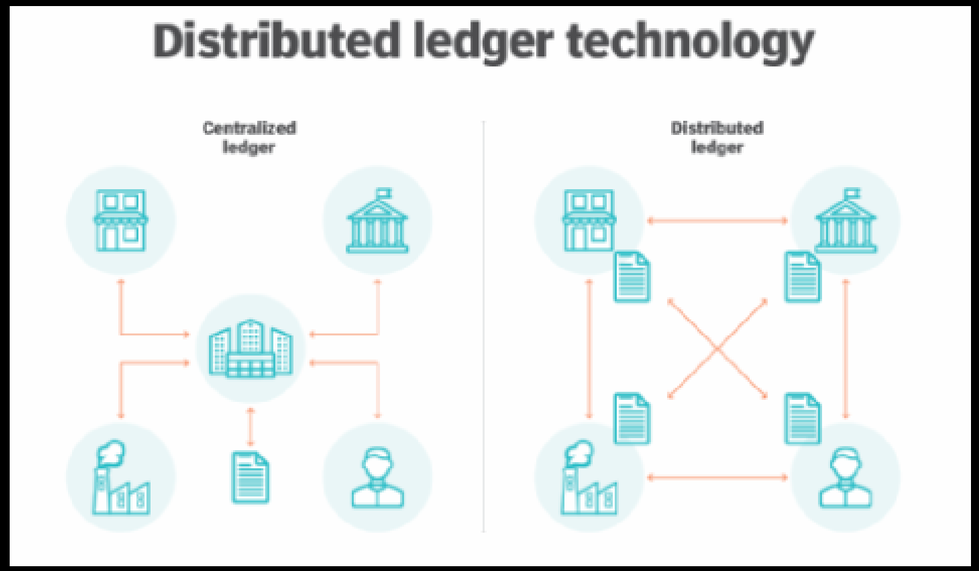
WEB 3 V/S WEB2

WEB 3	WEB 2
DECENTRALIZED WEB	USER-GENERATED CONTENT AND INTERACTIVITY.
ENCRYPTED TRANSACTIONS USING CRYPTOCURRENCIES.	USUAL PAYMENTS THROUGH BANKS AND UPI IDS


WHY
DECENTRALIZATION
???
Censorship Resistance
Resilience and Reliability.
Trustless
Enhanced Security
Interoperability

DECNTRALIZED LEDGERS

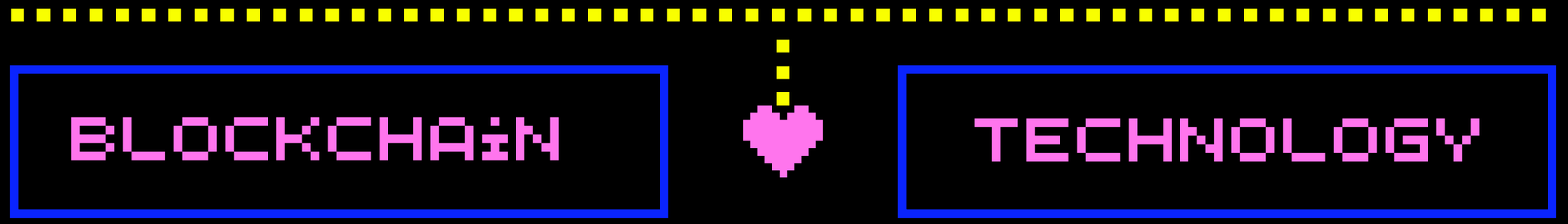
A Decentralized Ledger can be thought as some digital record-keeping system distrbuted across multiple nodes connected in the chain and changes in thses ledgers are synchronized through consensus mechanisms.



EXAMPLES OF SUCH LEDGERS : :

- Blockchain Technology
- DAG(Directed Acyclic Graph)
- Holochain

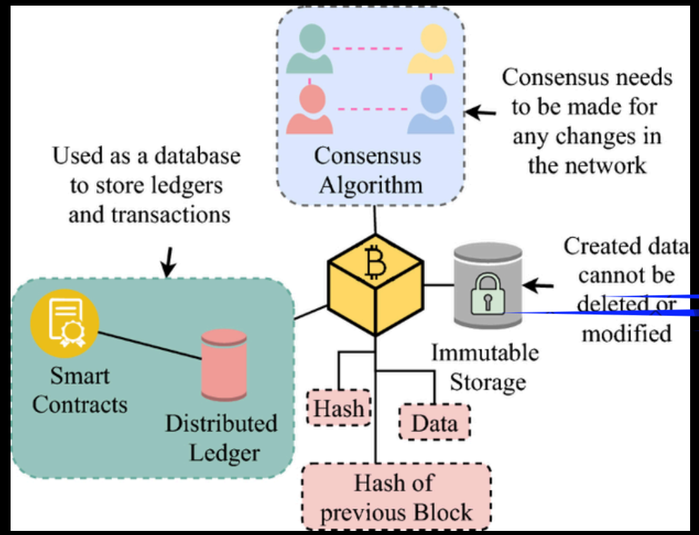
LEVEL 2



ANSWER THE QUESTION

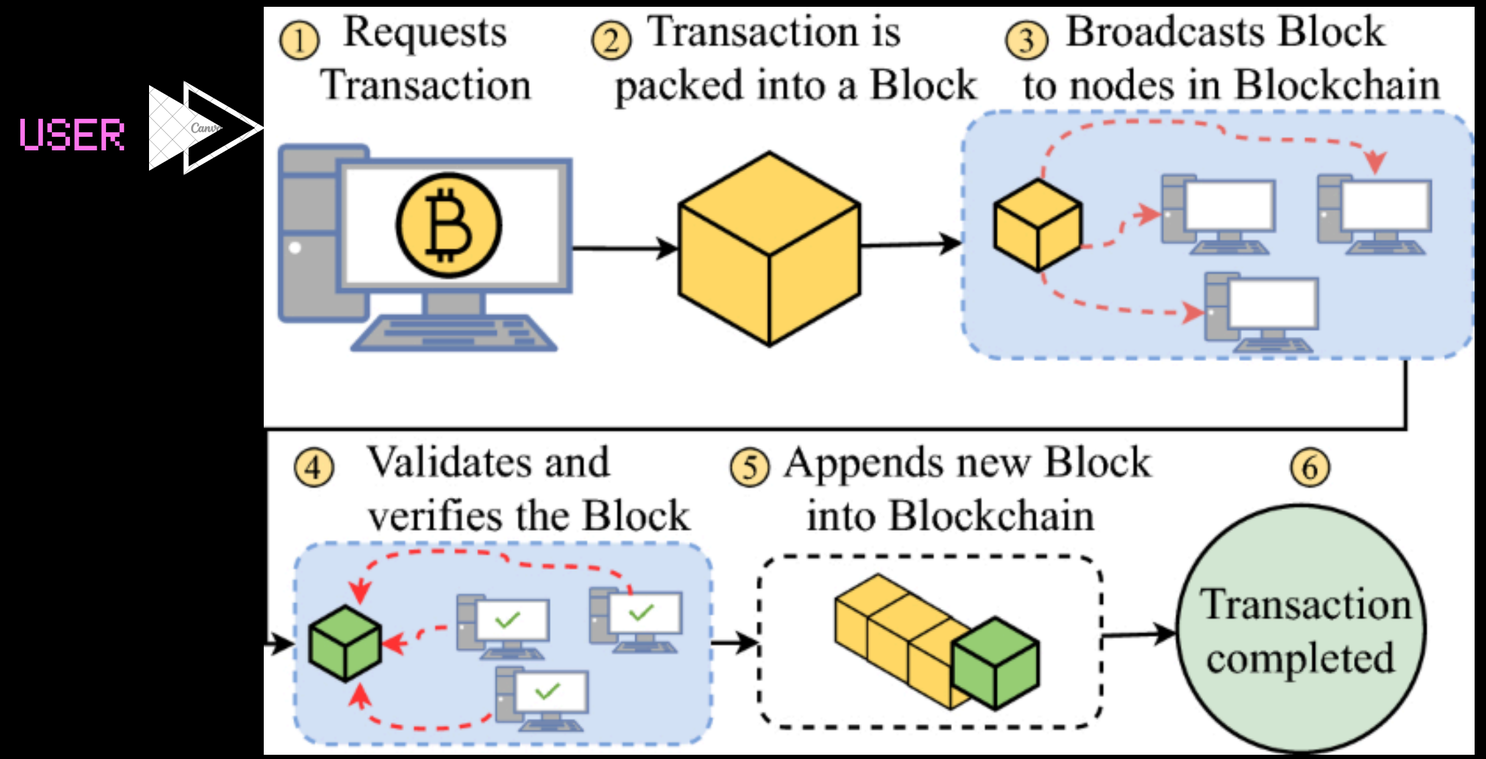
WHAT DO YOU KNOW ABOUT BLOCKCHAIN ???

BLOCKCHAIN TECHOLOGY



A Block On Blockchain

HOW BLOCKCHAIN WORKS ???



CONSENSUS MECHANISMS ::

PROTOCOLS WHICH GOVERNS THE CURRENT STATE OF LEDGER AND MAINTAINS SECURITY AND INTEGRITY WITHIN THE NETWORK..

TYPES OF CONSENSUS MECHANISMS ::

- Proof of Work (PoW): Miners solve complex puzzles to validate transactions (e.g., Bitcoin).
- Proof of Stake (PoS): Validators are chosen based on their stake in the network (e.g., Ethereum 2.0).
- Other Mechanisms: Byzantine Fault Tolerance, Proof of Authority.

LAYER 1 AND LAYER 2 BLOCKCHAINS

THE PRIMARY OR FOUNDATIONAL BLOCKCHAIN NETWORK, WHICH HANDLES ALL ON-CHAIN TRANSACTIONS AND OPERATIONS.

LAYER 1

LAYER 1 BLOCKCHAINS

BITCOIN

ETHEREUM

SOLANA

LAYER 2 BLOCKCHAINS

SECONDARY FRAMEWORKS OR PROTOCOLS BUILT ON TOP OF A LAYER 1 BLOCKCHAIN TO IMPROVE ITS SCALABILITY AND EFFICIENCY BY OFFLOADING SOME OF THE TRANSACTION PROCESSING FROM THE MAIN CHAIN.

LAYER 2 BLOCKCHAINS

Improved Scalability

Lower Fees

Additional Security Measures

Potential to extend use cases of Blockchain Technology

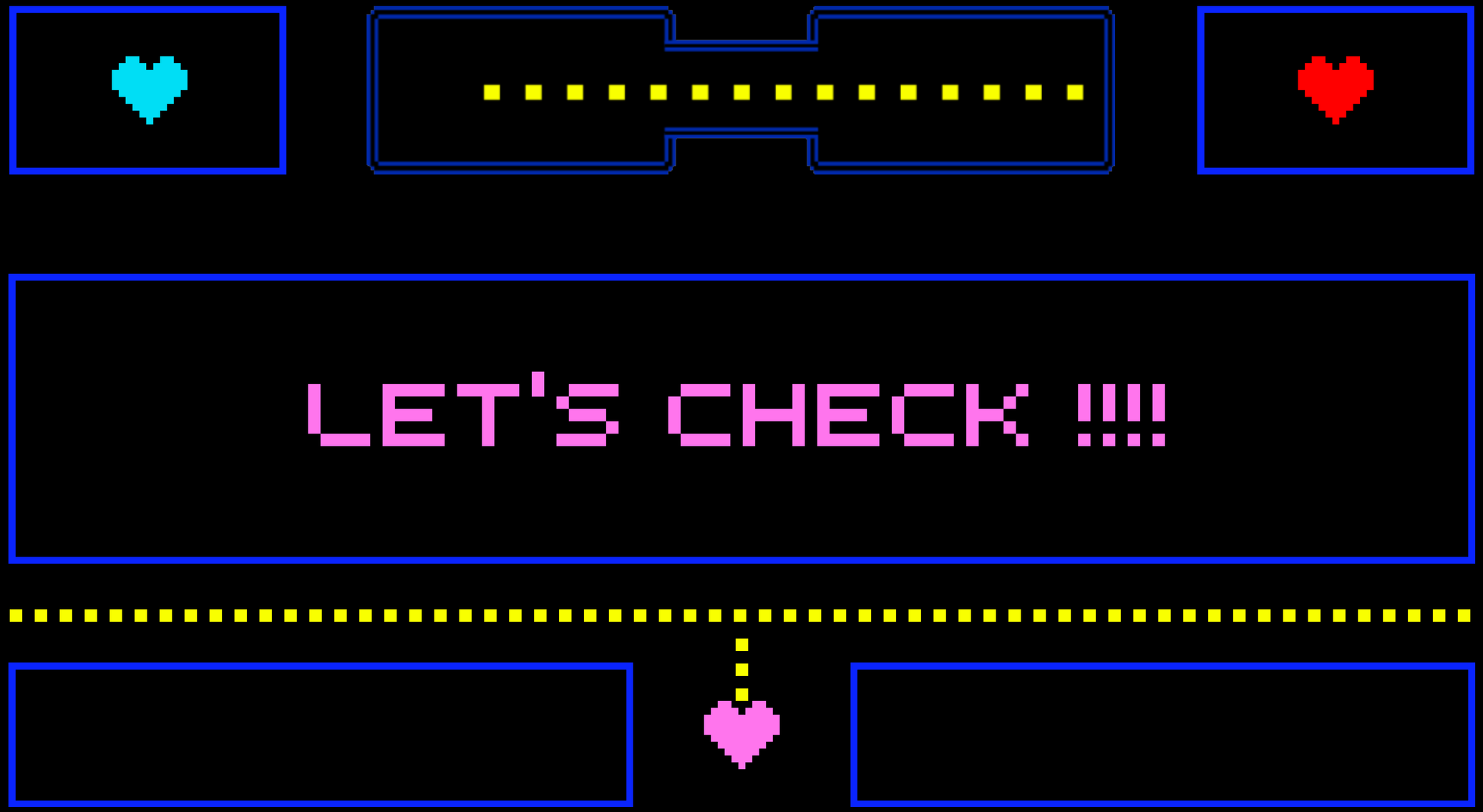
LAYER 2 BLOCKCHAINS

POLYGON

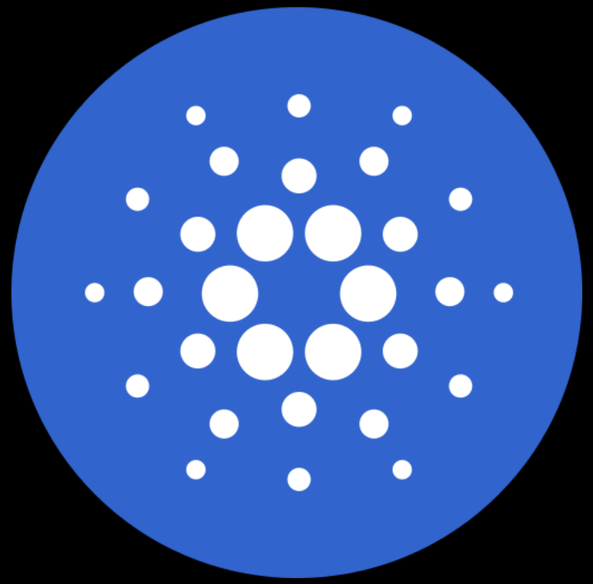
OPTIMISM

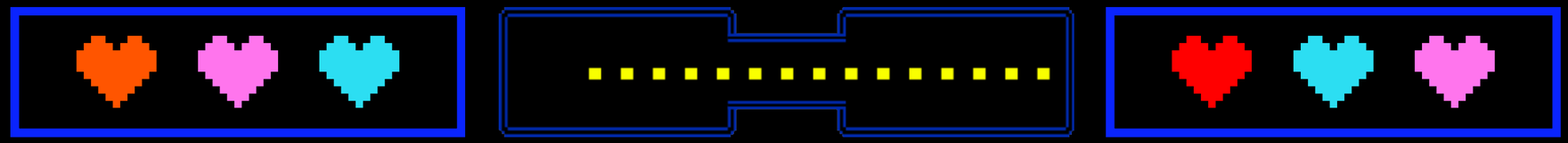
CRYPTOCURRENCIES

DIGITAL CURRENCIES THAT OPERATE ON BLOCKCHAIN NETWORKS. THEY OFFER DECENTRALIZED ALTERNATIVES TO TRADITIONAL MONEY, AND ARE SECURED THROUGH CRYPTOGRAPHY.


LET'S CHECK !!!!

IDENTIFY THESE CRYPTOCURRENCIES ...

ANSWEERS

1. BINANCE BNB COIN : UTILITY TOKEN FOR THE BINANCE ECOSYSTEM.

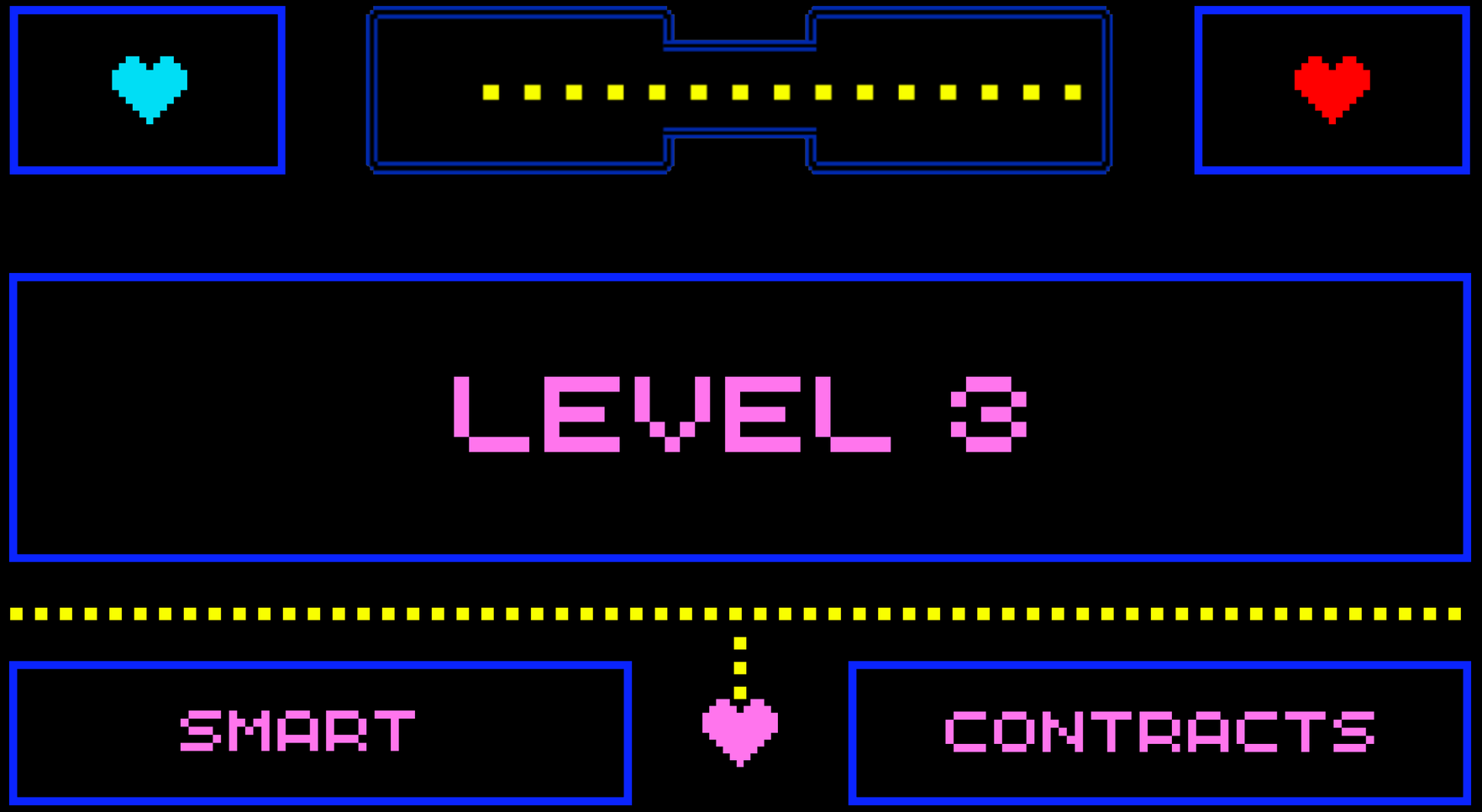
2. CARDANO (ADA) COIN

3. AVALANCHE (AVAX) COIN

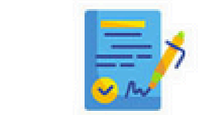
SOME OTHER POPULAR CRYPTOCURRENCIES ARE : POLKADOT (DOT) , LITECOIN (LTC) , STELLAR (XLM) , TERRA (LUNA)


WHERE TO KEEP AND
ACCESS THESE
CRYPTO ???


WALLET
CRYPTOGRAPHIC WALLETS


LEVEL 3
SMART
CONTRACTS

How does a Smart Contract Work?



Identify Agreement

Multiple parties identify the cooperative opportunity and desired outcomes.

Set conditions

Smart contracts are executed automatically when certain conditions are met.

Code business logic

A computer program is written

Encryption and blockchain technology

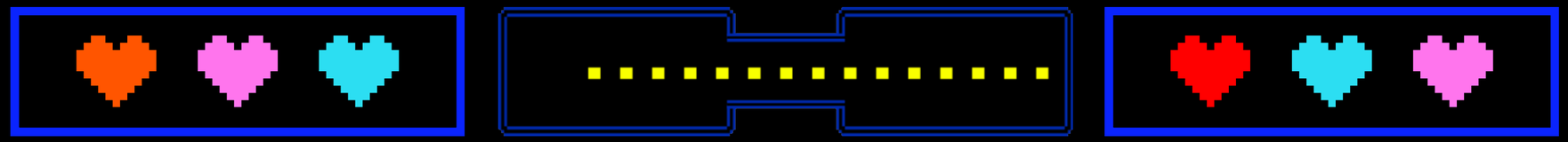
Encryption provides a secure transfer of messages between parties.

Execution and processing

The code is executed and outcomes are memorialized.

Network updates

All the nodes on the network update their ledger.



SMART CONTRACTS

A SMART CONTRACT IS AN AGREEMENT BETWEEN TWO PEOPLE OR ENTITIES IN THE FORM OF COMPUTER CODE PROGRAMMED TO EXECUTE AUTOMATICALLY.

SMART CONTRACTS

GAS FEES

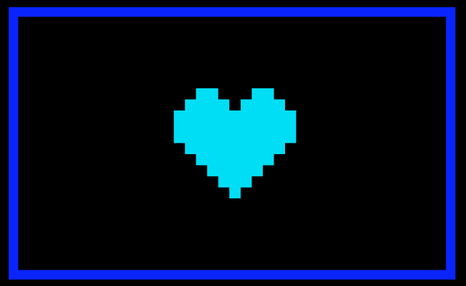
The unit used to measure the computational effort required to execute a transaction or run a smart contract on the Ethereum network. Users must pay gas fees in ETH to execute contracts.

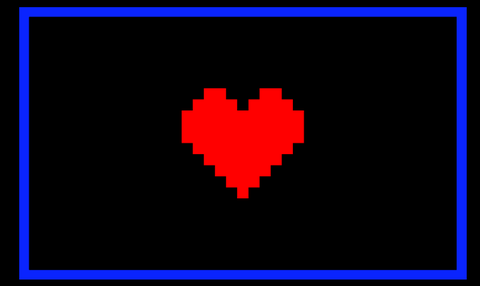
GAS LiMiT

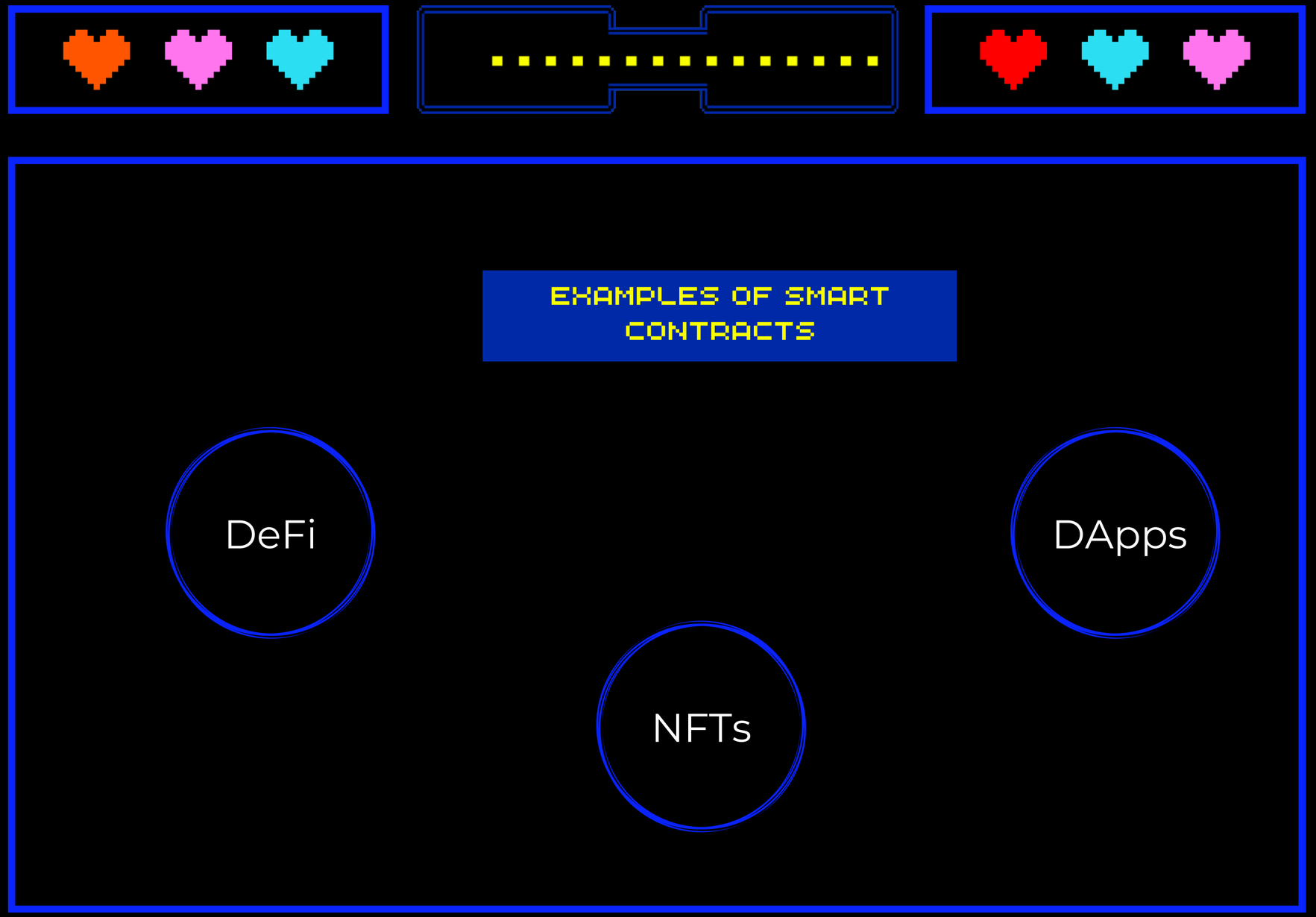
The maximum amount of gas you're willing to pay for a transaction. If the contract requires more gas than specified, it will fail.

GAS RPiCE

The amount you're willing to pay per unit of gas, measured in Gwei (1 ETH = 1 billion Gwei). Higher gas prices typically result in faster transaction confirmation.

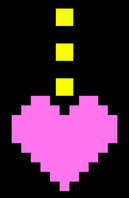




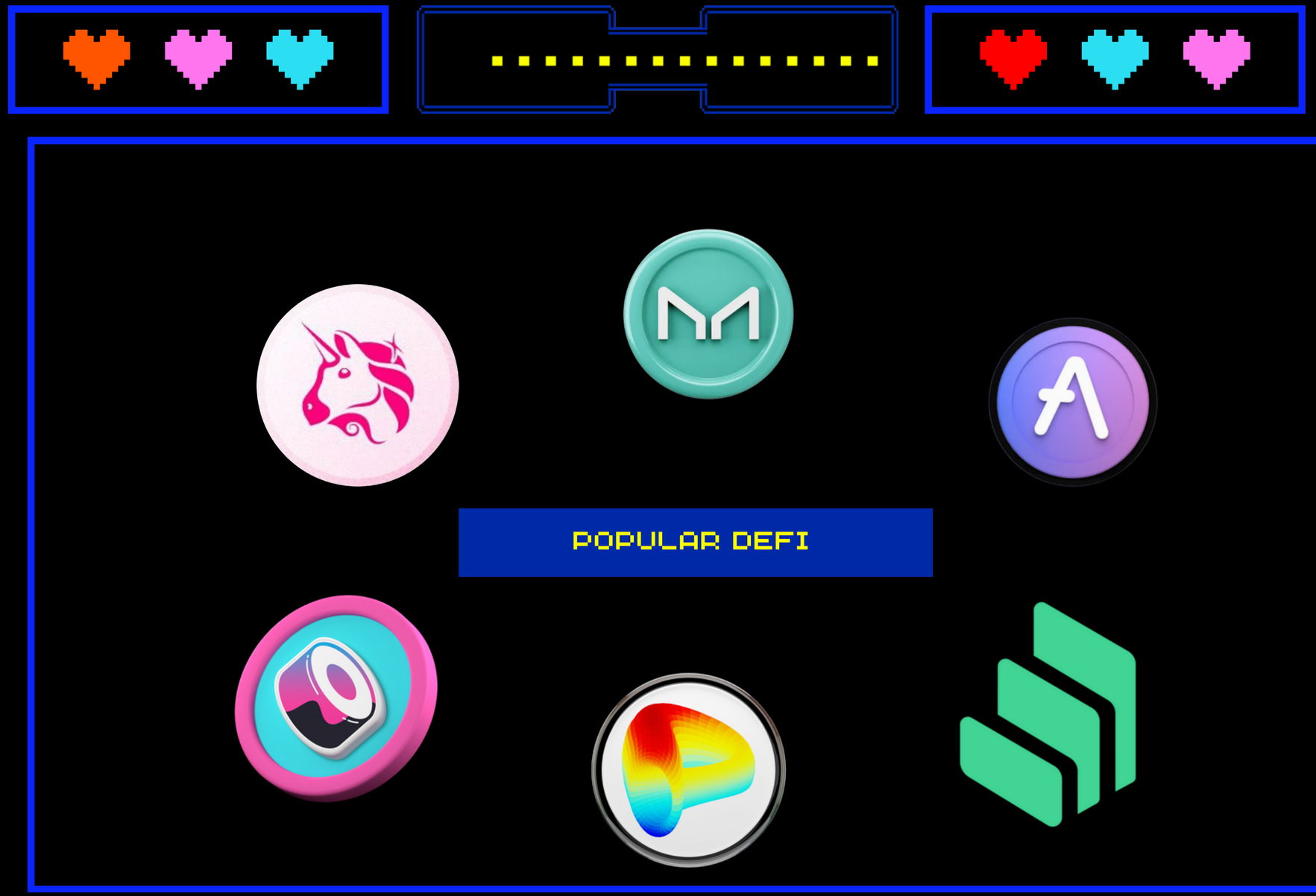

EXAMPLES OF SMART CONTRACTS
DeFi
DApps
NFTs

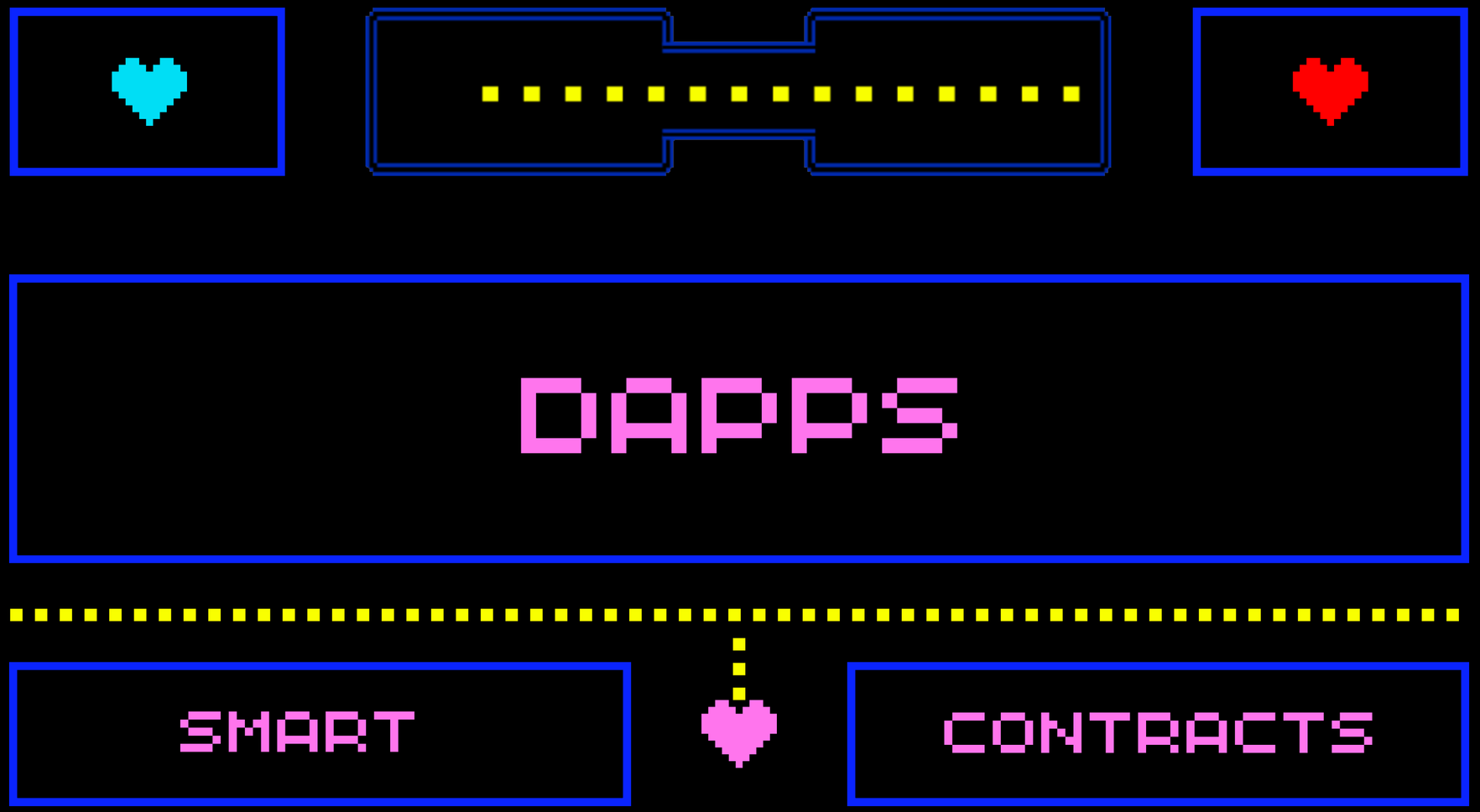
DEFi (DECENTRALiZED FiNANCE)

SMART

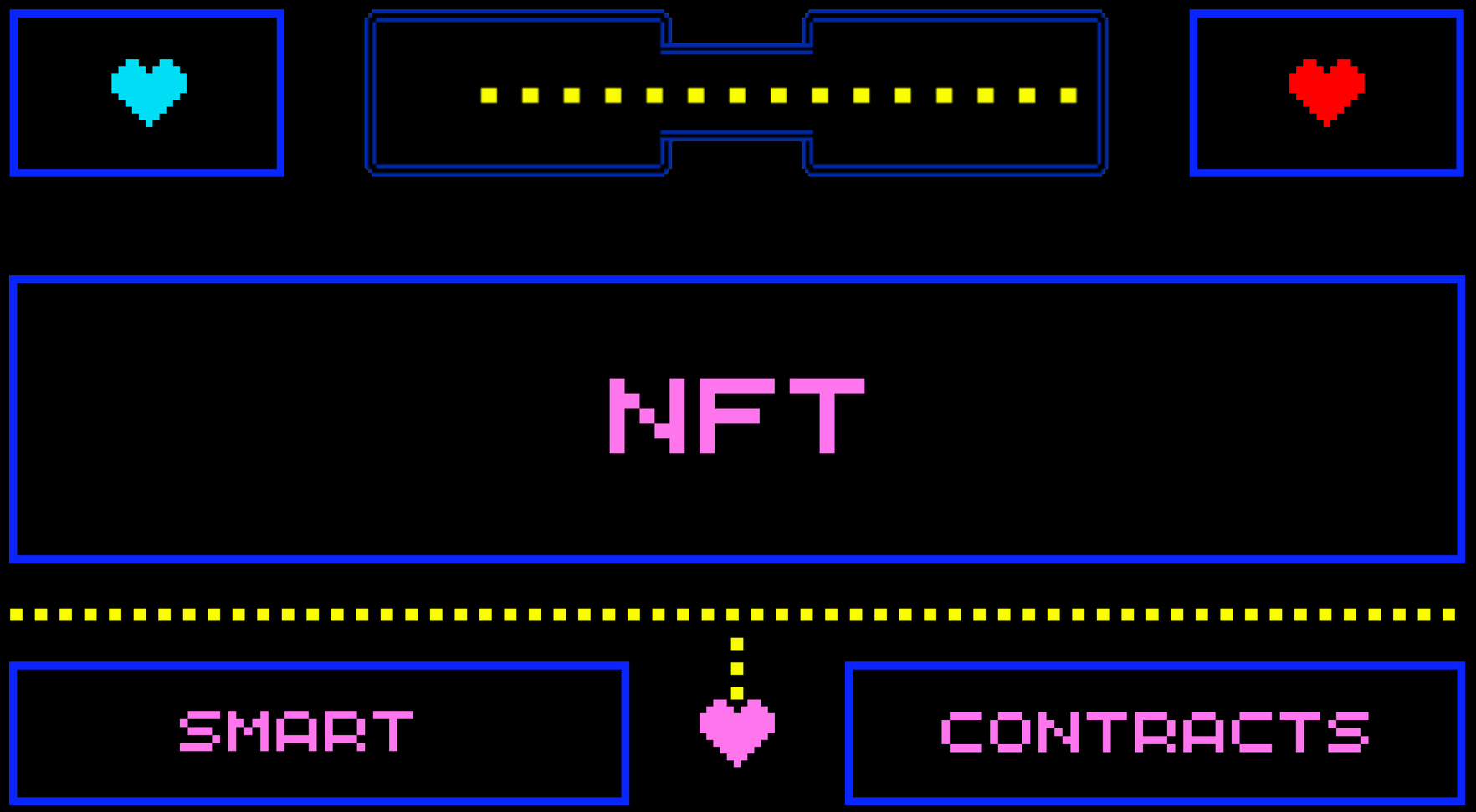


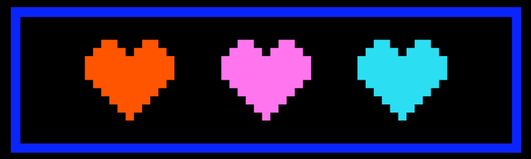
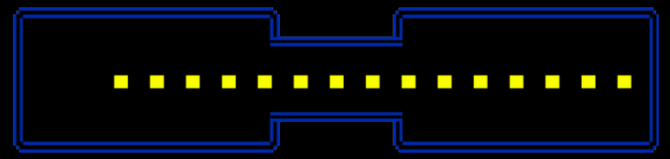
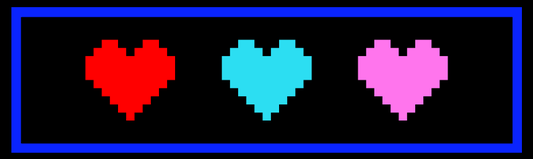
CONTRACTS


POPULAR DEFI


DAPPS
SMART
CONTRACTS


AXIE
INFINITY
POPULAR DEFI
ARWEAVE
OpenSea


NFT
SMART
CONTRACTS

WHAT ARE NFTS

UNIQUE DIGITAL ASSETS (OFTEN ART, COLLECTIBLES) STORED ON BLOCKCHAIN.

NFT ARE ONE OF ITS KIND , UNLIKE CRYPTOCURRENCIES , WHICH ARE INTERCHANGEABLE.


HERE WE END..
Q/A
STARTS