

# Office Hours

Gas & Gas Simulation w Kaikun26

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-Gas units

-GWEI

-Network fee

-Base fee

-Prio fee

-Max fee

-Gas Limit.



-Prio fee

-Max fee

-Gas Limit.

a) Minting 2 Doodles costs more gas units than minting 1 Doodle.

The former consumes more gas UNITS

b) Transfering ETH from one address to another costs exactly 21000 gas UNITS.

Token standards such as ERC721 are optimised in their use case.

"Gas refers to the unit that measures the amount of computational effort

required to execute specific operations on the Ethereum network."



c)

-Gas units

-Network fee

-Base fee

Gas units

-GWEI

-Gas units		
- <u>GWEI</u>	Gwei	
-Network fee	OWC!	
-Base fee	1 GWEI = a billionth of an ETH. = 10^-9 ETH	
-Prio fee		
-Max fee	STATEMENT 1	
-Gas Limit.	"I paid 9000GWEI" === 0.000009ETH	
	STATEMENT 2 "I had to send my transaction with a 9000Gwei per gas unit" network fee === 9000 x (Gas units used)	
	STATEMENT 1 IS NOT THE SAME AS STATEMENT 2	
METAVERSE HQ		Gas & Gas Simulation w Kaikun26

-Network fee

-Base fee
-Prio fee

-Max fee

-Gas Limit.

Sending eth costs 21000 gas units.
Current network fees

Network Fees

Network fees are in GWEI per Gas unit.
These are the fees required depending on network demand

-Wax fee

EXAMPLE

-Gas Limit.

Sending eth costs 21000 gas units.
Current network fee = 80 GWEI

80 \* 21000 = 1680000 GWEI => 0.0.00168 ETH (5.5\$)



-Gas units

-GWEI

-Gas units

-GWEI

Fees

- (

-Network fee

-Base fee

-Prio fee

-Max fee

-Gas Limit

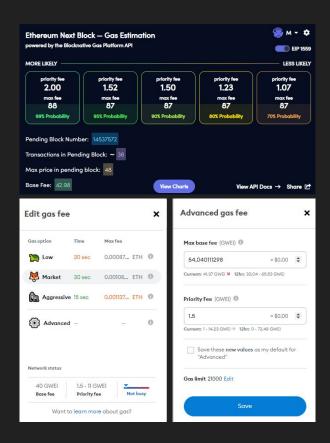
**BASE FEE -** This is the minimum fee you're gonna have to pay to send your transaction

**PRIORITY FEE** - Miner tip. This is an 'optional' fee you can pay to the miner for your transaction to be prioritised from others.

MAX GAS - Maximum GWEI, per gas unit you are willing to pay (includes Base and Prio)

**GAS LIMIT** - Maximum amount of gas units you are willing to

pay for IN your transaction. NOTE: Pay less than you require, you get out of gas error.





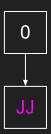
ERC721 VS ERC721A

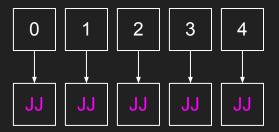


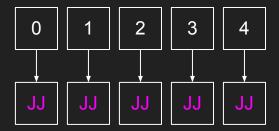


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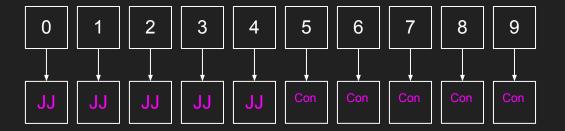


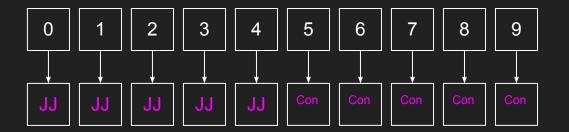






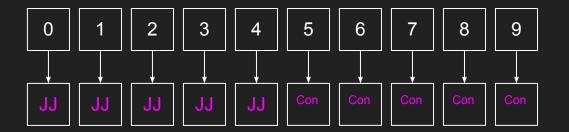
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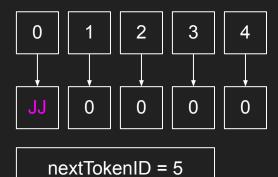


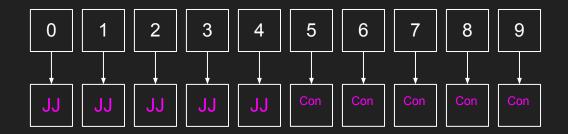
## ERC721A Azuki



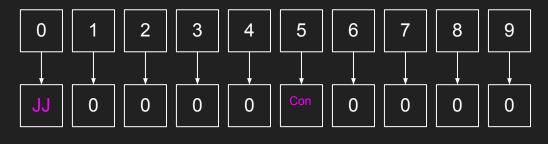


#### ERC721A Azuki



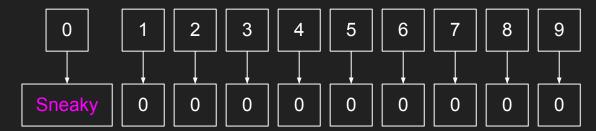


#### ERC721A Azuki

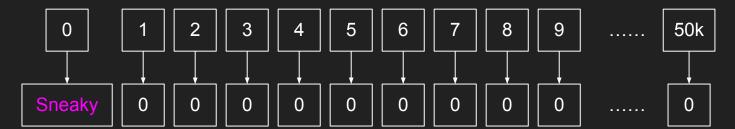


nextTokenID = 10

# ERC721A potential problem



# ERC721A potential problem



# **WORKSHOP TIME**

Github Repo -

https://github.com/dewindtk/mvhq officehours GAS

