



Web 3.0 User Manual

Join the Future Now

Zia Khan

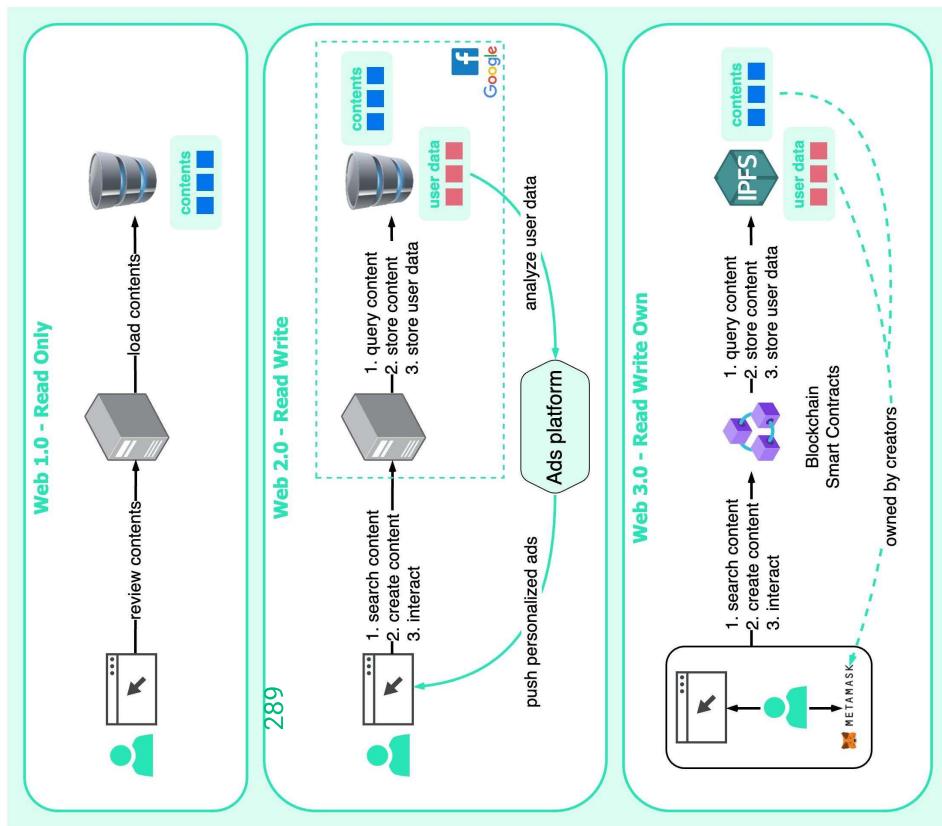
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www.panaverse.co



What is Web 3.0?

blog.bytebytego.com





Core Ideas of Web3

- **Web3 is decentralized:** instead of large swathes of the internet controlled and owned by centralized entities, ownership gets distributed amongst its builders and users.
- **Web3 is permissionless:** everyone has equal access to participate in Web3, and no one gets excluded.
- **Web3 has native payments:** it uses cryptocurrency for spending and sending money online instead of relying on the outdated infrastructure of banks and payment processors.
- **Web3 is trustless:** it operates using incentives and economic mechanisms instead of relying on trusted third-parties.

What do we mean by “blockchains are trustless”?

When we say blockchains are “trustless,” what we mean is that there are mechanisms in place by which all parties in the system can reach a consensus on what the canonical truth is.

Power and trust is distributed (or shared) among the network’s stakeholders (e.g. developers, miners, and consumers), rather than concentrated in a single individual or entity (e.g. banks, governments, and financial institutions).

Perhaps a more accurate way to describe blockchains is not as “trustless,” but as built on the basis of distributed trust: We are trusting everyone in aggregate.

Web3 Careers

Rohas Nagpal



Smart Contract
Developer



Token Economist



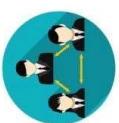
Community
Manager



Full Stack
Developer



DeFi Analyst



Social Media
Manager



Front-end
Developer



Blockchain Lawyer



UI / UX Designer



Product Manager



Crypto Crime
Investigator



Sales & Marketing
Manager



Project Manager

What is Ethereum?



- Ethereum was launched back in 2015 and is famous for being a decentralized and open-source proof-of-stake blockchain with smart contracts functionality.
- One of Ethereum's biggest strengths is its variety of use cases, and the list keeps on growing every year.
- As with Bitcoin, it is a large database of all the transactions conducted on the Ethereum Network.
- A database usually structures its data into tables, whereas a blockchain, as its name implies, structures its data into chunks [blocks] that are strung together.

• What is Ether (ETH)?

- Ether is the transactional token that facilitates operations on the Ethereum Blockchain network.
- While ether is the cryptocurrency of the Ethereum network, metaphorically speaking, it is more accurate to refer to it as the "fuel" of the network.
- Ether is the world's second-largest virtual currency by market capitalization; it is second only to Bitcoin (BTC) according to market value.
- ETH isn't just a speculative asset; it has actual value.



Ethereum Base Units

Think of the smallest unit of ether – wei – as a penny. It takes a whole bunch of wei to make an ether. 10^{18} wei, to be exact.

10^9 wei is a gwei. Gwei is most commonly used when talking about gas [network transaction fees]. Rather than saying your gas cost is 0.00000001 ether you can say 1 gwei.

PWEI FOR THE PIGGY BANK

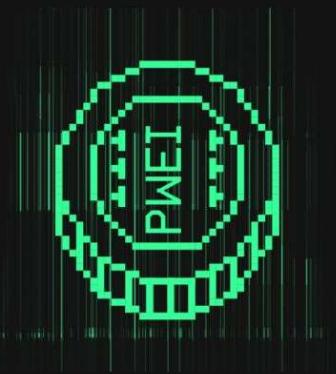
ETHER FOR THE BILLS

Most of those denominations aren't needed for the average enthusiast. The majority of transactions will use ether & gwei. Understand wei for technical cred and you should be set.



PWEI

Most commonly used for Gas (network transaction fees). You need a lot to really be valuable.



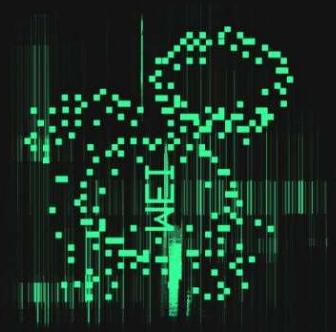
GWEI

Pocket change. More tangible than a Nano but not as valuable as an Ether.



ETHER

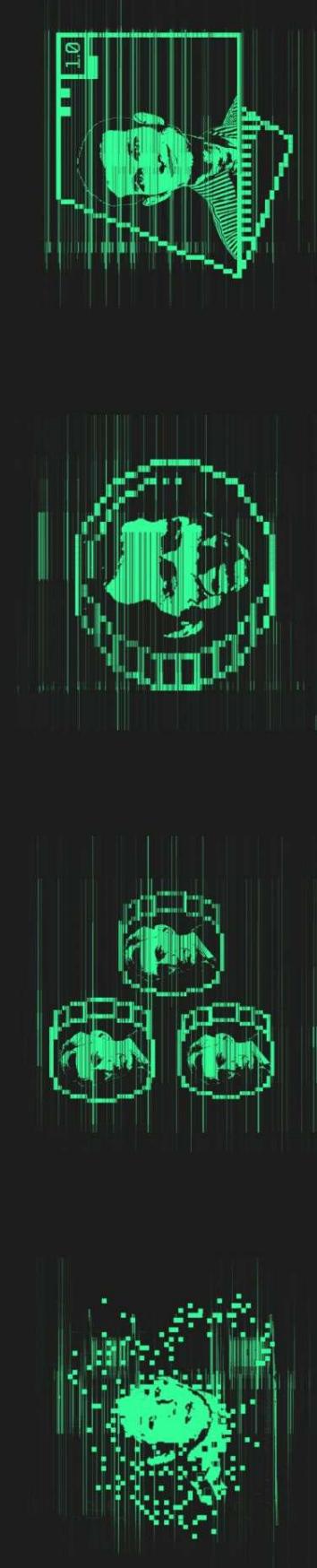
The most common denomination. In most substantial transactions you'll think in terms of Eth.



WEI

Basically imperceptible, digital dust. It's really only used for technical cases and writing code.

Each denomination has its own slang. Nicknames based off influential figures from the world of cryptography. A nod to founding figures the same way a \$100 bill features Ben Franklin. Not mentioned below are Ada Lovelace (KWEI), Charles Babbage (MWEI), and Nick Szabo (TWEI).



〈WEI〉

WEI

Wei Dai. Formulated the concepts of all modern cryptocurrencies.

〈SHANNON〉

GWEI

Claude Shannon. The Father of Information Theory. Codebreaker and crypto-analysis guru.

〈FINNEY〉

PWEI

Hal Finney. Cypherpunk master and the first human to receive a Bitcoin from Satoshi.

〈BUTERIN〉

ETHER

Vitalik Buterin. Wunderkind creator of Ethereum.

1,000,000,000,000,000,000 WEI

50 PWEI OR FINNEY

20 GWEI OR SHANNON

==

1

ETHER

Ethereum Gas Fee

- Gas is essential to the Ethereum network. It is the fuel that allows it to operate, in the same way that a car needs gasoline to run.
- Gas refers to the unit that measures the amount of computational effort required to execute specific operations on the Ethereum network.
- Since each Ethereum transaction requires computational resources to execute, each transaction requires a fee. Gas refers to the fee required to conduct a transaction on Ethereum successfully.
- Gas fees are paid in Ethereum's native currency, ether (ETH). Gas prices are denoted in gwei, which itself is a denomination of ETH - each gwei is equal to 0.000000001 ETH (10⁻⁹ ETH).

Featured: Wallet-to-wallet instant messaging via [b Blockscan Chat!](#)

Vitalik Buterin, co-founder of Ethereum, believes Ethereum will be able to process close to **1,00,000 transactions per second**. At present, it can do 25 per second.

The next stage is **sharding**, a process to reduce network congestion and increase transaction speed.

Sharding will create **64 different shards** so that the information of the blockchain is split up.

Sun, 09 Oct 2022 11:57:20 UTC



16 gwei

Base: 16 | Priority: 0
\$0.44 | ~10 mins: 0 secs



17 gwei

Base: 16 | Priority: 1
\$0.47 | ~3 mins: 0 secs



19 gwei

Base: 16 | Priority: 3
\$0.50 | ~30 secs

Estimated Cost of Transaction Actions:

Action	Low	Average	High
② OpenSea: Sale	\$1.52	\$1.61	\$1.71
② Uniswap V3: Swap	\$3.91	\$4.15	\$4.40
② USDT: Transfer	\$1.15	\$1.22	\$1.29

[View API](#)

Ethereum for Applications

- Ethereum will completely transform applications of all shapes and sizes.
- With a built-in scripting language and distributed virtual machine, **smart contracts** can be built to carry out all sorts of functions without the need for a trusted third party or central authority.
- Using its internal cryptocurrency, ether, nodes can be paid for their processing power in running these decentralized apps, and entire decentralized autonomous organizations (DAOs) will exist in an **ether economy**.

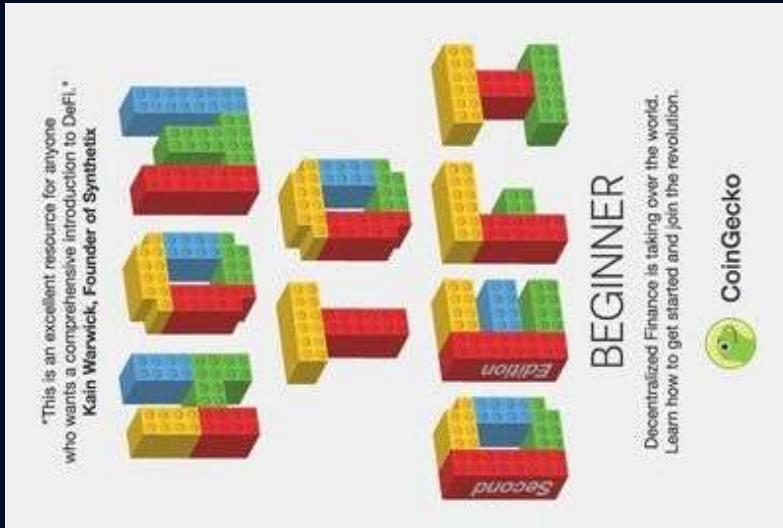
What is a Dapp?

- A dapp has its backend code running on a decentralized peer-to-peer network. Contrast this with an app where the backend code is running on centralized servers.
- A decentralized application [dapp] is an application built on a decentralized network that combines a smart contract and a frontend user interface.
- On Ethereum, smart contracts are accessible and transparent – like open APIs – so your dapp can even include a smart contract that someone else has written.

Ethereum for DeFi

- Ethereum has given rise to a new constellation of “decentralized finance” or DeFi businesses and projects.
- Essentially the cryptocurrency version of Wall Street, DeFi aims to offer people access to financial services—borrowing, lending, and trading—with the need for legacy institutions such as banks and brokerages, which often take large commissions and other fees.
- Most DeFi apps are built on the Ethereum blockchain.
- Ethereum has a range of potential applications beyond cryptocurrency, experts say, such as facilitating real estate deals and international trade.

Summary From 'How To DeFi (Beginner)' Book



<https://blog.cryptostars.is/summary-from-how-to-defi-beginner-book-by-coingecko-23e0c001e0ad>

8 DeFi Key Categories

1. Stablecoins
2. Lending & Borrowing
3. Exchanges
4. Derivatives
5. Fund Management
6. Lottery
7. Payments
8. Insurance

MetaMask  Patent Pending in...  Paraphrasing Tool...  GQL Standard Co...  Twitter Developers  what is metaverse

#	NAME ↗️↘️	CHAIN	SECTOR	30D USERS ↗️↘️	TVL (USD) ↗️↘️	1 DAY % ↗️↘️
1	 MakerDAO	Ethereum	Lending	41915	\$7.57B	-0.35%
2	 Aave	Ethereum	Lending	7.270	\$3.89B	-0.55%
3	 Uniswap	Ethereum	DExes	203.403	\$2.90B	0.00%
4	 Balancer	Ethereum	DExes	2,930	\$594.1M	-1.21%
5	 Curve	Ethereum	DExes	4,606	\$541.7M	-0.10%
6	 dydX	Ethereum	Derivatives	663	\$387.0M	-0.55%
7	 SushiSwap	Ethereum	DExes	961	\$305.9M	-0.23%
8	 Euler	Ethereum	Lending	49	\$269.2M	-0.12%
9	 Flexa	Ethereum	Assets	2,897	\$109.5M	-0.00%
10	 Compound	Ethereum	Lending	3,441	\$100.4M	-0.66%

Ethereum for Global Trade and Commerce

- International trade is a \$16 trillion market that accounts for the exchange of capital, goods, and services across international borders or territories.
- Major trading companies around the world are recognizing the transformative impact of Ethereum blockchain technology in operating global supply chains, managing trade finance, and unlocking new business models.

REAL ESTATE ASSET TOKENIZATION

- Real estate is the world's most significant store of wealth. The total value of all the world's real estate stands at **USD 327 trillion**, a record high. To put that into context, the value of all gold ever mined pales by comparison at USD 12.1 trillion – just 4% of the value of global property.
- Tokenization of commercial real estate transactions will reduce transaction costs from 30% to 2%, entry barriers for investors from \$200,000 to \$100 and reduce the time for conducting operations from 1 month to 1 click.
- Asset Fractionalisation is the simple process of dividing an asset into smaller denominations so that many users can buy its partial ownership.
- We can apply to Assets such as art, precious metals, real estate, private **equity or debt positions**, etc.
- https://github.com/panacloud-modern-global-apps/defi-dapps-solidity-smart-contracts/tree/main/step20_real_estate_tokenization

\$20bn worth of crypto held by Pakistanis: Report

Report suggests potential to encash windfall gains of billions of dollars in crypto assets of Pakistanis, dual nationals

By Ahtasam Ahmad



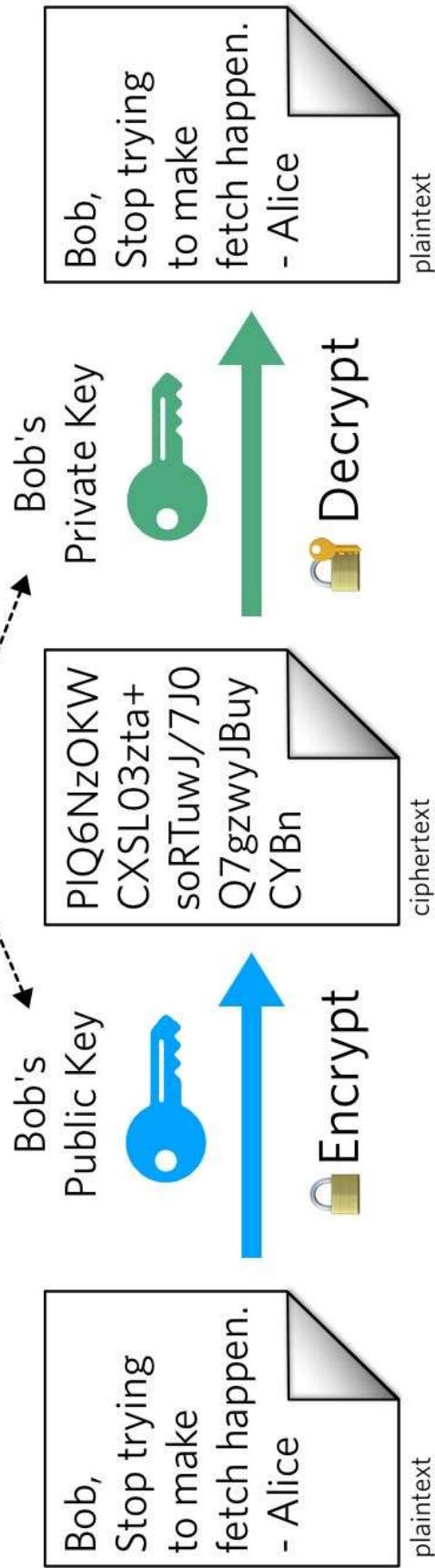
What Is Public Key Cryptography?

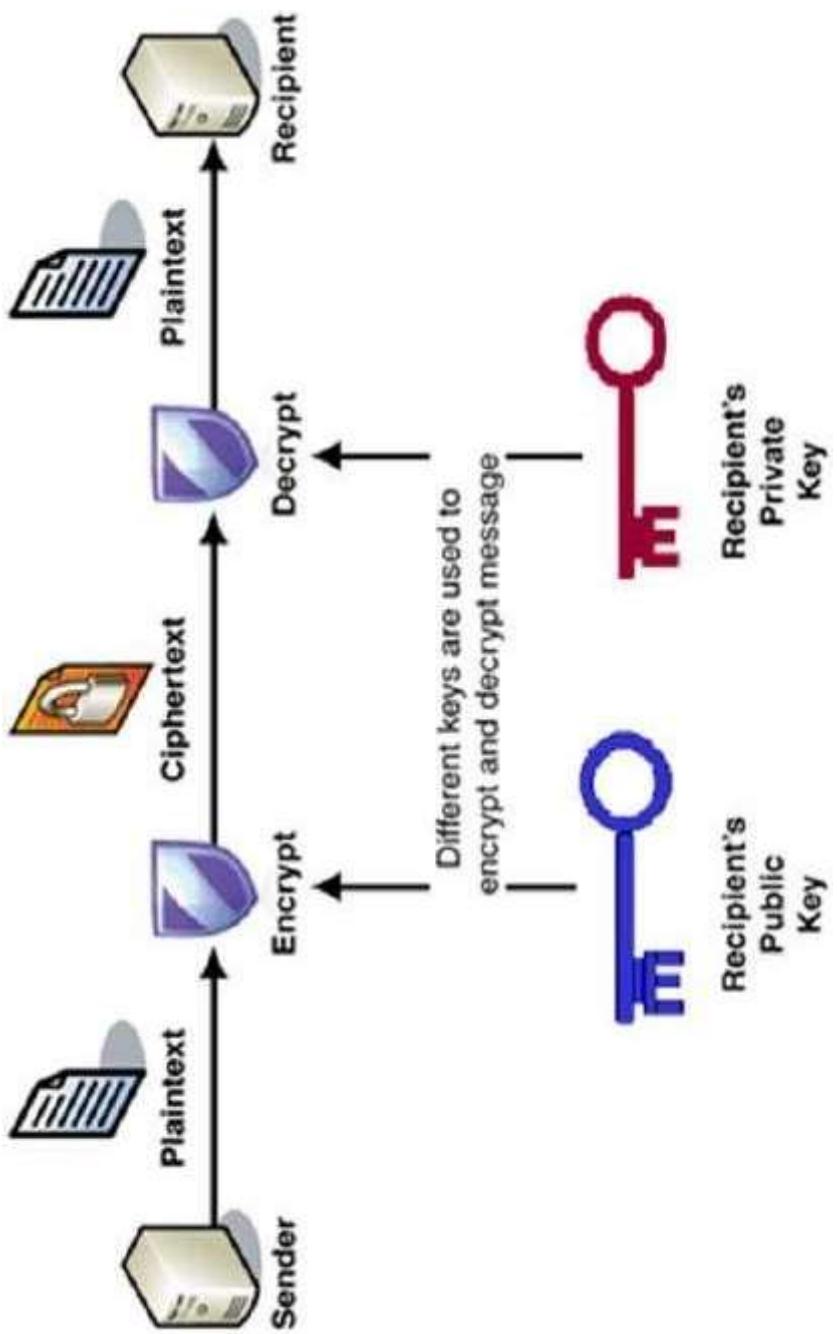


Public key cryptography, also known as asymmetric cryptography, uses two separate keys instead of one shared one: a public key and a private key. Public key cryptography is an important technology for Internet security. Public key cryptography is a method of encrypting or signing data with two different keys and making one of the keys, the public key, available for anyone to use. The other key is known as the private key. Data encrypted with the public key can only be decrypted with the private key.

Public Key Cryptography

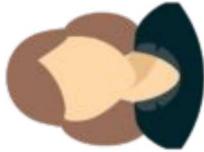
keys are different but
mathematically linked



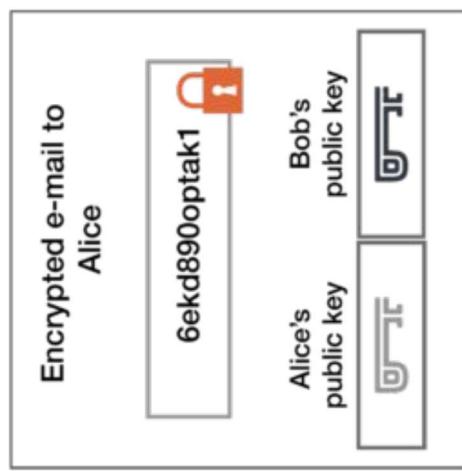
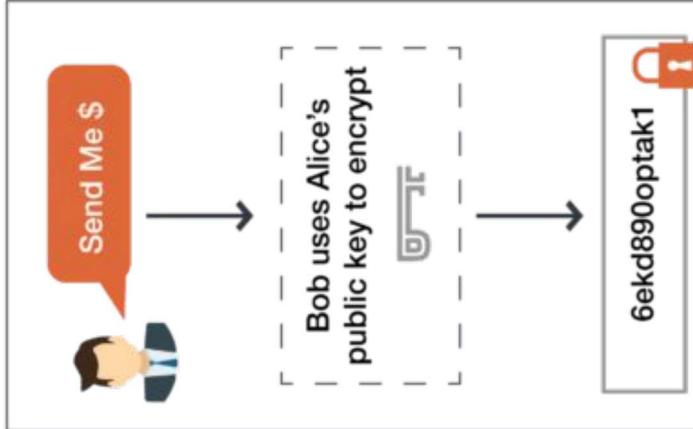
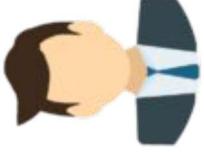


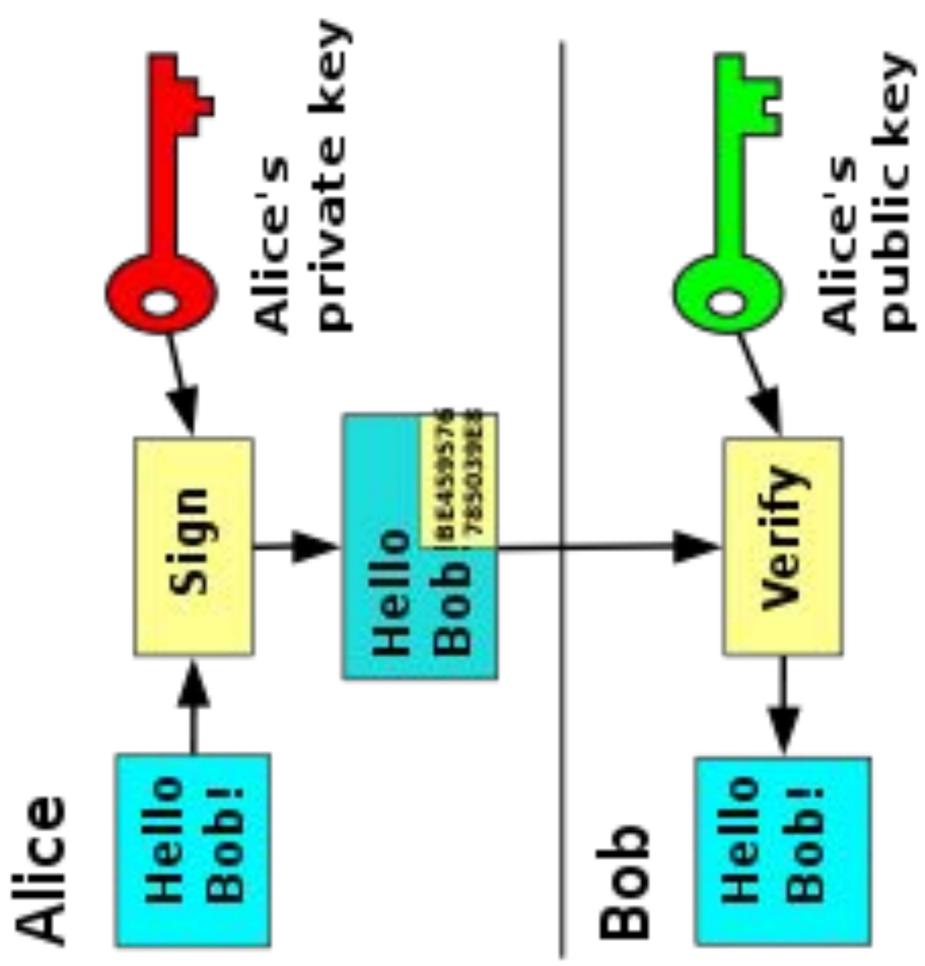
Servers

ALICE



BOB



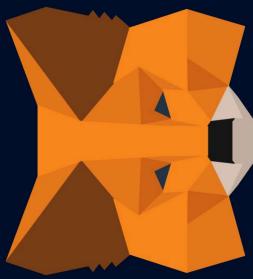


What Is a Crypto Wallet?



Crypto wallets keep your private keys – the passwords that give you access to your cryptocurrencies – safe and accessible, allowing you to send, receive, and spend cryptocurrencies like Ethereum and ERC-20 Tokens. A cryptocurrency wallet consists of a set of public addresses and private keys. Anyone can deposit cryptocurrency in a public address, but funds cannot be removed from an address without the corresponding private key. Private keys represent final control and ownership of cryptocurrency.

What Is MetaMask?



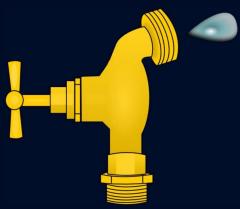
MetaMask is a cryptocurrency wallet that enables users to access the Web 3 ecosystem of decentralized applications (dapps). It also enables users to store Ether and other ERC-20 tokens.

Goerli Testnet

It is named after a train station in Berlin and is one of the largest and most active Ethereum test nets.



<https://wwwdefinitions.net/pronounce/Goerli>



What is a Faucet?

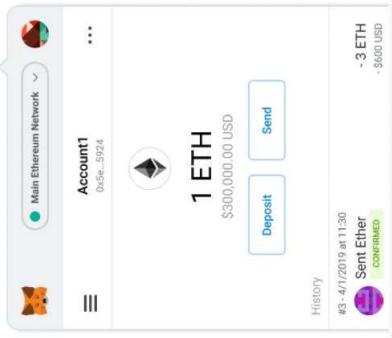
Few developers want to spend real money when testing or deploying smart contracts. That's why testnet faucets are the ideal solution – you get free cryptocurrencies you can use to pay gas when deploying or testing smart contracts.



Features ▾ Support ▾ About ▾ Build ▾

Chrome  iOS  Android 

Install MetaMask for your browser



The screenshot shows the MetaMask mobile application interface. At the top, there's a navigation bar with a lock icon, the text "metamask.io/download/", and a star icon. Below the navigation bar, there's a header with the MetaMask logo and the text "Install MetaMask for your browser". The main content area displays a mobile phone screen showing the MetaMask wallet interface. The wallet interface includes a top bar with network selection ("Main Ethereum Network"), account information ("Account1 0x5e...5924"), and a three-dot menu. The central part of the interface shows a balance of "1 ETH \$300,000.00 USD" with a diamond icon. Below the balance are "Deposit" and "Send" buttons. A "History" section at the bottom lists a transaction: "#3 - 4/7/2019 at 11:30 Sent Ether  CONFIRMED". The background of the entire interface is white with colorful, abstract geometric shapes (yellow triangle, blue cat-like shape, green circle, yellow circle, green wavy line) floating around the phone screen.

Install MetaMask for Chrome

1. Change to Goerli Test Network
2. Create a testing account
3. Copy Your Wallet Address

The screenshot shows the MetaMask wallet interface. At the top, there's a network selection dropdown set to "testing" (0xedb...7109). Below it, a message says "Not connected". To the right, there are three buttons: "Buy" (blue circle with a downward arrow), "Send" (blue circle with a right arrow), and "Swap" (blue circle with a double-headed arrow). The main area is titled "GoerliETH" and shows a balance of "0 GoerliETH". On the left, under "My accounts", there are two entries: "Panacloud" (0 GoerliETH) and "testing" (0 GoerliETH, marked with a green checkmark). Below these are buttons for "Create account", "Import account", "Connect hardware wallet", "Support", and "Settings". At the bottom, there's a link to "Portfolio site" and a balance summary: "0 GoerliETH".

Disconnect

Goerli

Switch to Goerli

Oxedbd18BF93E9C135634F488D12C143909728F7109



hCaptcha

Privacy - Terms

I am human

Send ether

Rules:

- ✓ Connect to your wallet
- ✓ Choose Goerli Test Network
- ✗ Access to only 1 request every 24h
- ✓ Wallet address balance must be lower than 0.5 GoerliETH

← → ⌂ ⌃ goerlifaucet.com

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Powered by ▲ alchemy

Goerli Mumbai

GOERLI FAUCET

Fast and reliable. 0.1 Goerli ETH/day.

To stop spam attacks draining the faucet, Alchemy accounts are temporarily required. [Signup for free here.](#) X

Enter Your Wallet Address (0x...) or ENS Domain

Send Me ETH

Please [signup](#) or [login](#) with Alchemy to request ETH. It's free!

Your Transactions

Time

-

Now you can donate your new Goerli ETH to the ape wildlife fund.

Support GoerliFaucet.com with a  Tweet

or

Follow your transaction on  Etherscan



● Goerli test network >

Not connected

testing

0xedb...7109

⋮



0.1 GoerliETH



Buy



Send



Swap

Assets

Activity

Portfolio site

0.1 GoerliETH



ETHERSCAN
The Ethereum Block Explorer

What is a Etherscan?

Etherscan, an Ethereum blockchain explorer, allows you to search the Ethereum blockchain for free.

Through the tool, you can see records of past transactions, smart contracts, wallets, gas fees, and other information related to the Ethereum network.

MetaMask Patent Pending in... Paraphrasing Tool... Twitter Developers



Goerli Testnet Network

All Filters Search by Address / Txn Hash / Block / Token / Ens

q

Goerli

Transaction Details

Overview

State

...

[This is a Goerli Testnet transaction only.]

⑦ Transaction Hash:

⑦ Status:

⑦ Block:

⑦ Timestamp:

0x6f3adfd205e68f64da9a51bcc86a7adf8d18e164eb7d15841b69b0de3f011c6d

Success

7732487 18 Block Confirmations

4 mins ago (Oct-08-2022 08:05:24 AM +UTC)

⑦ From:

0x631e9b031b16b18172a2b9d66c3668a68a668d20

⑦ To:

0xedb18bf93e9c135634f488d12c143909728f7109

⑦ Value:

0.1 Ether (\$0.00)

⑦ Transaction Fee:

0.00000000093492248 Ether (0.093492248 Gwei)

⑦ Gas Price:

Click to see More

What is Uniswap?

- Uniswap is the largest decentralized exchange (or DEX) operating on the Ethereum blockchain.
- It allows users anywhere in the world to trade crypto without an intermediary.
- UNI, the governance token that allows users to vote on key protocol changes.
- Uniswap was one of the first decentralized finance (or DeFi) applications to gain significant traction on Ethereum – launching in November 2018.
- Numerous other decentralized exchanges have launched (including Curve, SushiSwap, and Balancer), but Uniswap is currently the most popular by a significant margin.
- Uniswap pioneered the Automated Market Maker model, in which users supply Ethereum tokens to Uniswap “liquidity pools” and algorithms set market prices [as opposed to order books, which match bids and asks on a centralized exchange like Coinbase] based on supply and demand.
- By supplying tokens to Uniswap liquidity pools, users can earn rewards while enabling peer-to-peer trading.
- Anyone, anywhere, can supply tokens to liquidity pools, trade tokens, or even create and list their own tokens [using Ethereum’s ERC-20 protocol].

app.uniswap.org/#/swap

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Goerli test network

Connected 0xedb...709 ⓘ

testing ⚙️

Swap Pool Charts ↗

0.1088 GoerliETH

0.0001 ETH ↗

Balance: 0.1088 MAX

0.000150276 UNI ↗

Balance: 0.001504

① 1 UNI = 0.6654 ETH

Swap

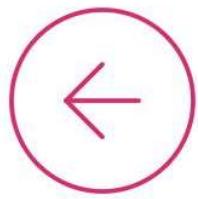
Assets

Activity

Portfolio site

0.1088 GoerliETH

X



Transaction Submitted

[View on Explorer](#)

Add UNI

Close

New address detected! Click here to add to your address book.

<https://app.uniswap.org>

0x68b...Fc45 : MULTICALL ⓘ

0.0001 GoerliETH

Estimated gas fee ⓘ 0.000246 GoerliETH

Max fee: 0.000246 GoerliETH

Likely in < 30 seconds

Details Data Hex

Total 0.0003465 GoerliETH

Amount + gas fee Max amount: 0.0003465 GoerliETH

Reject Confirm



goerli.etherscan.io/tx/0x880ad4f84b2fa5adc947aebe0bdf351126336a239a6179026c1de8b4c14d986

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Goerli Testnet Network

All Filters Search by Address / Txn Hash / Block / Token / Errs

Home Blockchain Tokens Misc

Goerli

Transaction Details

Overview	Internal Txns	Logs (4)	State
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[This is a Goerli Testnet transaction only]

Transaction Hash: 0x880ad4f84b2fa5adc947aebe0bdf351126336a239a6179026c1de8b4c14d986

Status: Success

Block: 7739688 4 Block Confirmations

Timestamp: 1 min ago (Oct-09-2022 02:02:36 PM +UTC)

From: 0x6b18bf93e9c1356341488d12c1439097287199

To: Contract 0x6b346583fb72a70ecd1485e0e4670d8e65f645 TRANSFER 0.0001 Ether From 0x68b346583fb72a70ecd1485.. To 0x64fb2711434fb7b91a55ed3..

ERC-20 Tokens Transferred: (2)

From 0x07a4f631643fe3... To 0x6b18bf93e9c1... For 0.000150276161070885 Uniswap (UNI)
 From 0x68b346583fb7... To 0x07a4f631643fe3... For 0.0001 Wrapped Ether (WETH)

Value: 0.0001 Ether (\$0.00)

Transaction Fee: 0.000169291501692815 Ether (\$0.00)

Gas Price: 0.000000001500000015 Ether (1.500000015 Gwei)

0.1085 GoerliETH

Buy Send Swap

Assets

[Portfolio site](#)

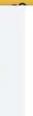
0.1085 GoerliETH

100.000000000... DAI

0.00165 UNI



Goerli test network >



What is Binance?



- Binance is an online exchange where users can trade cryptocurrencies. It supports most commonly traded cryptocurrencies.
- Binance is a cryptocurrency exchange with the highest liquidity, and Uniswap can be considered its decentralized equivalent.
- Binance provides a crypto wallet for traders to store their electronic funds.
- The exchange also has supporting services for users to earn interest or transact using cryptocurrencies.
- Users can buy, sell, and trade crypto, choose options and futures trading, apply for crypto loans, earn passive income and more with a single login. These centralized products are easy-to-use and comprehend, and can be accessed using a web browser, desktop or mobile app.

Uniswap vs Binance?

- Uniswap v3 is the largest decentralized exchange by trading volume, with more than \$1.7 billion worth of assets changing hands in 24 hours, according to data from CoinGecko.
- However, Binance is the largest centralized crypto exchange with \$22.2 billion in trading volume over the same period. Coinbase, meanwhile, logged \$3.1 billion.
- Uniswap has four fee tiers: 0.01%, 0.05%, 0.30% and 1.00%. Depending on the pair you trade, you could be charged as low as a 0.01% fee or as high as a 1% fee.
- Stablecoin pairs like USDC/USDT on Uniswap have usually low fees while altcoin pairs tend to have higher fees, which you can check out on Uniswap's overview page.
- Binance, on the other hand, has very low trading fees starting from 0.10%.
- The research used a metric called market depth to compare liquidity across Uniswap v3 and the centralized exchanges. Market depth, a common method used to measure liquidity on exchanges, shows how much of one asset can be traded for another at a given price level. For an Ether/USD trading pair, a trader who executes a single \$5-million trade can save about \$24,000 on Uniswap v3 compared with Coinbase, according the research.

How to buy Ethereum in Pakistan

<https://www.techjuice.pk/how-to-buy-ethereum-in-pakistan/>

Compare crypto exchanges for October 2022

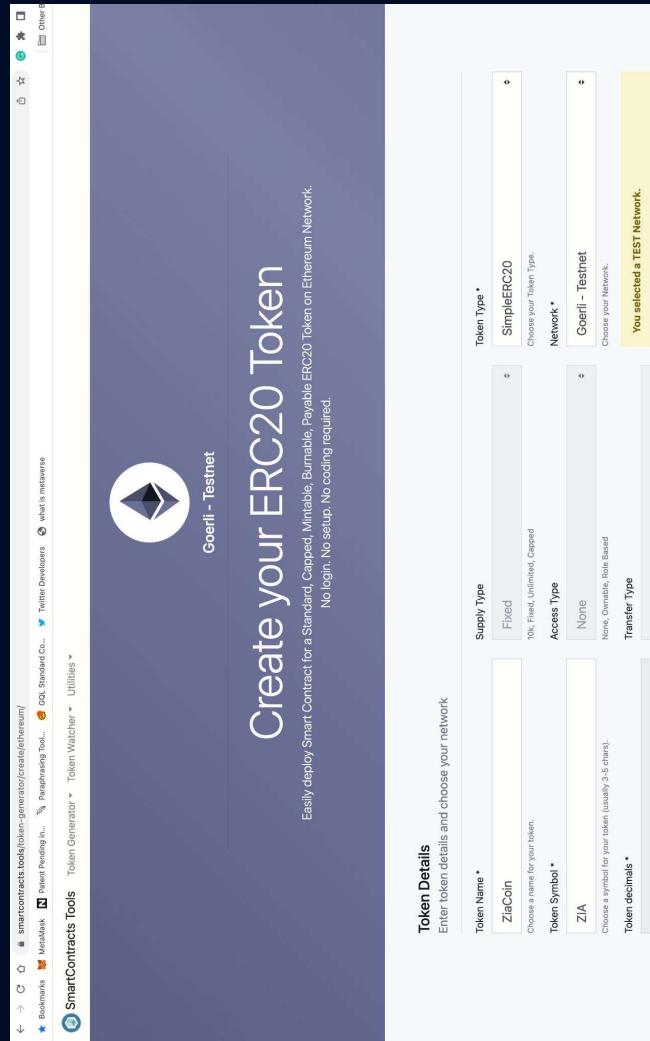
Exchange	Fees		Minimum Trade	Cryptos
Crypto.com	Maker: 0.04%–0.4%; Taker: 0.1%–0.4%	\$2	240+	
FTX.US	Maker: 0%–0.1%; Taker: 0.05%–0.2%	None	20+	
Binance.US	Maker: 0%–0.1%; Taker: 0.02%–0.1%	\$10	100+	
Gemini	\$0.99 to \$2.99 under \$200 or 1.49% over \$200, and a 0.50% convenience fee	Varies	75+	
Cash App	1.5% to 2.3%	\$1	1 (Bitcoin)	
Coinbase	Maker: 0%–0.4%; Taker: 0.05%–0.6%	\$1	100+	
Robinhood	0%	\$1	11	
eToro	1%	\$10	20+	
UniSwap	0.05%–1.0% + ETH gas fees	Varies	50,000+ pairs	
Kraken	0.9% for buying stablecoins and 1.5% for any other coin. 3.75% + \$0.25 for card and digital wallet payment processing. 0.5% for online banking/ACH processing. 0.01% to 0.02% for margin. 0.01% to 0.05% for futures.	\$1	100+ BTC, ETH, AVAX, IDEX, MATIC, SOL, USDC, USDT, and many others.	

What is ERC-20?

- Ethereum Request for Comment 20 (ERC-20) is the implemented standard for fungible tokens created using the Ethereum blockchain. It is the technical standard used in many new tokens created using the Ethereum ecosystem.
- A fungible token is one that is interchangeable with another token—where the well-known non-fungible tokens (NFTs) are not interchangeable.
- It guides the creation of new tokens on the Ethereum blockchain so that they are interchangeable with other tokens used within smart contracts.
- Smart contracts were becoming more popular in 2015, but several issues needed to be addressed. Because anyone could make a token, many were being created. However, there wasn't a way to ensure that all of the different tokens could be created, used, or exchanged.
- Without a standardized methodology for tokens, every application would need its own token, and users would need to find a way to convert them back and forth between the hundreds of apps being developed.

Create Your ERC20 Token

Create your own ERC-20 token using your name on Goerli Testnet e.g. ZiaCoin
<https://www.smartcontracts.tools/token-generator/ethereum/>



The screenshot shows the 'Create your ERC20 Token' page on the SmartContracts Tools website. At the top, there's a navigation bar with links like 'Bookmarks', 'Recent', 'SmartContracts Tools', 'Token Generator', 'Token Watcher', and 'Utilities'. Below the navigation, there's a search bar and a network selection dropdown set to 'Goerli - Testnet'. The main section has a large input field for the token name ('ZiaCoin') and a symbol ('ZIA'). It also includes dropdowns for 'Supply Type' (set to 'Fixed'), 'Access Type' (set to 'None'), 'Token Type' (set to 'SimpleERC20'), and 'Network' (set to 'Goerli - Testnet'). A note at the bottom says 'You selected a TEST Network.' The overall interface is clean and modern.

Checkout

Double check your information and start your transaction

Summary	Transaction Cost
<p>0xedb18bf93e9c135634f488d12c143909728f7109 Tokens will be sent to this address</p> <p>SimpleERC20 Token Type</p> <p>ZiaCoin Name</p> <p>ZIA Symbol</p> <p>18 Decimals</p> <p>10000000000 Initial Supply</p> <p>10000000000 Max Supply</p>	<p>Variable</p> <p>① Gas Fee 0 ETH</p> <p>① Token Deployment 0 ETH</p> <p>① Total 0 ETH</p> <p>CREATE TOKEN</p>

[BACK TO BILLING INFORMATION](#)

Goerli test network

testing → New contract

[CONTRACT DEPLOYMENT](https://www.smartcontractstools.com)

Amount + gas fee	Max amount: 0.00053867 GoerliETH
Estimated gas fee ⓘ	0.00435189 GoerliETH
Site suggested Very likely in < 15 seconds	
Total	0.00435189 GoerliETH

Contract Address: [0x73bf59cE49925b3be66a1c3B0ed1bf9E0a5C23Bb](#)

Transaction Hash: [0x2f8b013a82f6575af9ca3ddd4a3b8c923ef51970bd7d6ce5bf68072f1c72044](#)

[Reject](#) [Confirm](#)

Making transaction...

Well! Transaction done!

Transaction Hash: [0x2f8b013a82f6575af9ca3ddd4a3b8c923ef51970bd7d6ce5bf68072f1c72044](#)

DATA	EDIT
ZiaCoin (ZIA)	
Address: 0x73bf59cE49925b3be66a1c3B0ed1bf9E0a5C23Bb	
Supply: 10000000000 ZIA	

Your Token:

[+ Add to MetaMask](#) [View on Etherscan](#) [⚙️ Create Page](#)

ZiaCoin (ZIA)
Contract Address: [0x73bf59cE49925b3be66a1c3B0ed1bf9E0a5C23Bb](#)

Transaction Hash:
[0x2f8b013a82f6575af9ca3ddd4a3b8c923ef51970bd7d6ce5bf68072f1c72044](#)

Importing Token in the Metamask Wallet

The screenshots illustrate the step-by-step process of adding a custom token (ZIA) to a Metamask wallet on the Goerli test network.

- Screenshot 1: Home Screen**

The wallet interface shows the Goerli test network selected. Assets include 0.0967 GoerliETH and 100.000000000... DAI. A banner at the bottom right says "Need help? Contact MetaMask support".
- Screenshot 2: Import Tokens**

The "Import tokens" screen asks if you want to import tokens. It lists "testing / ZIA" and shows a balance of 10000000000 ZIA. It includes "Send", "Swap", and "Balance" buttons.
- Screenshot 3: Import Tokens (Custom Token)**

The "Import tokens" screen for a custom token shows a warning: "Token detection is not available on this network yet. Please import token manually and make sure you trust it. Learn about scams and security risks." It has fields for "Token contract address" (containing 49925b3be66a1c3B0ed1bf9E0a5C23Bh), "Token symbol" (ZIA), and "Token decimal" (set to 18). A blue "Add custom token" button is prominent.
- Screenshot 4: Success**

The final screen shows the imported token "10000000000 ZIA" in the asset list. It includes "Send", "Swap", and "Balance" buttons, and a note: "You have no transactions". A "Back" button and a "Import tokens" button are also present.

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Goerli Testnet Network



All Filters Search by Address / Txn Hash / Block / Token / Ens



Home Blockchain Tokens Misc



Goerli

Token ZiaCoin

Overview



Max Total Supply: 10,000,000,000 ZIA

Contract: 0x73bf59cE49925b3be66aa1c3B0ed1bf9E0a5C23Bb

Holders: 1

Decimals: 18

Transfers: 1

[Transfers](#) [Holders](#) [Contract](#)



A total of 1 transaction found

Txn Hash	Method	Age	From	To	Quantity
0x2f18b013a82f6575aid9...	0x60806040	22 mins ago	0x00000000000000000000000000000000...	0xedb18bf93e9c135634f...	10,000,000,000



[Download CSV Export]

A token is a representation of an on-chain or off-chain asset. The token page shows information such as price, total supply, holders, transfers and social links. Learn more about this page in our Knowledge Base.

goerli.etherscan.io/tx/0x2f8b013ab2f6575a0d5ca3ddd4a3b8c923ef51970bd7d6ce5bf68072f1c72044

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Etherscan

Goerli Testnet Network

Transaction Details < >

Overview Internal Txns Logs (2) State

[This is a Goerli Testnet transaction only]

② Transaction Hash: 0x2f8b013ab2f6575a0d5ca3ddd4a3b8c923ef51970bd7d6ce5bf68072f1c72044

② Status: Successes

② Block: 7744513 129 Block Confirmations

② Timestamp: 34 mins ago (Oct-10-2022 10:03:00 AM +UTC)

② From: 0xedb18bf3e9c135634f488d12c1439097287109

② Interacted With (To): [Contract 0x73b59ce49925b3be6aa1c3b0ed1bf9e0a5c23bb Created]

② ERC-20 Tokens Transferred:

From: 0x00000000000000000000000000000000	To: 0xedb18bf3e9c1...	For: 10,000,000,000 ZiaCoin (ZIA)
② Value: 0 Ether (\$0.00)		
② Transaction Fee: 0.00328598780705346 Ether (\$0.00)		
② Gas Price: 0.00000004932538061 Ether (4.932538061 Gwei)		

Click to see More ↓

ⓘ A transaction is a cryptographically signed instruction from an account that changes the state of the blockchain. Block explorers track the details of all transactions in the network. Learn more about transactions in our Knowledge Base.

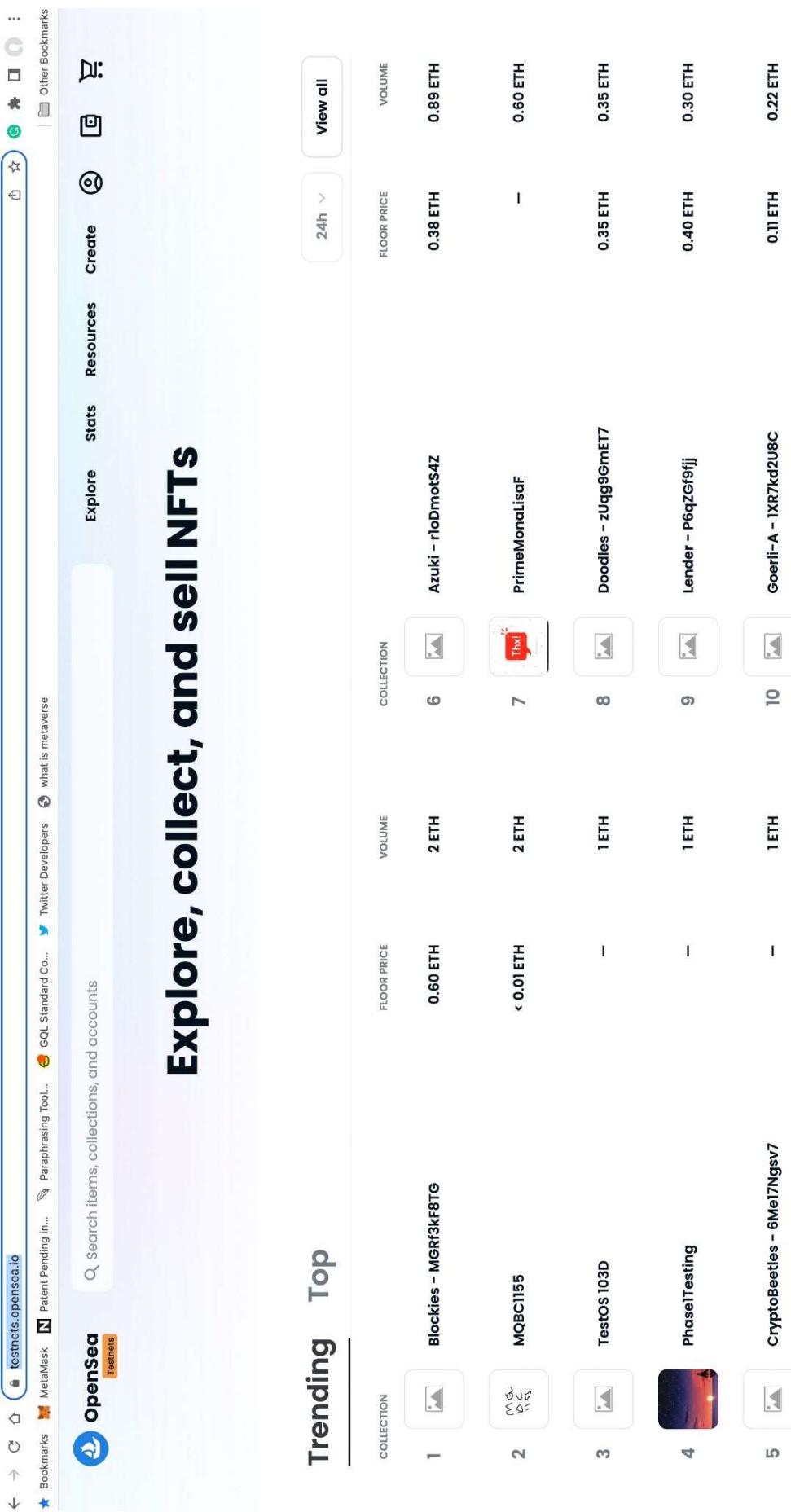
What are NFTs?

- Non-fungible tokens [NFTs] are cryptographic assets on a blockchain with unique identification codes and metadata that distinguish them from each other.
- Unlike cryptocurrencies, they cannot be traded or exchanged at equivalency. This differs from fungible tokens like cryptocurrencies, which are identical to each other and, therefore, can serve as a medium for commercial transactions.
- NFTs [non-fungible tokens] are unique cryptographic tokens that exist on a blockchain and cannot be replicated.
- NFTs can represent real-world items like artwork and real estate.
- "Tokenizing" these real-world tangible assets makes buying, selling, and trading them more efficient while reducing the probability of fraud.
- NFTs can also function to represent individuals' identities, property rights, and more.
- Collectors have sought NFTs as their value initially soared, but has since moderated.

What is OpenSea?

- The world's first and largest digital marketplace for crypto collectibles and non-fungible tokens (NFTs). Buy, sell, and discover exclusive digital items.
- Is the first ever decentralized NFT marketplace built on the Ethereum blockchain and is currently the largest.
- OpenSea is a regionalized peer-based marketplace for trading rare and unique digital assets.
- Whether it's collectibles, arts, or gaming items developed on NFT (non-fungible token) technology and flow on the blockchain of Ethereum, an investor can buy, sell, and trade these on OpenSea.
- Platform has over 1 million users in 2022.
- It has recently entered the Alexa 500 Most Visited Websites, with a total of 121.7 million views.
- Over 80 million different types of NFTs are available for trade on OpenSea.
- Over 80% of the free NFTs created on OpenSea are either fraudulent or spam.





Explore, collect, and sell NFTs

Explore, collect, and sell NFTs

If you don't have a wallet yet, you can select a provider and create one now.

MetaMask

Coinbase Wallet

WalletConnect

Phantom

Glow

Show more options

Trending Top

COLLECTION	FLOOR PRICE	VOLUME
1 Blockies - MGRf3kF8TG	0.60 ETH	2 ETH
2 MQBC1155	< 0.01 ETH	2 ETH
3 TestOS 103D	—	1 ETH
4 Phase1Testing	—	1 ETH
5 CryptoBeebies - 6MeI7Ngsv7	—	1 ETH
6 Azuki - rIoDm0tS4Z	6	Azuki - rIoDm0tS4Z
7 PrimeMonalisaF	7	PrimeMonalisaF
8 Doodles - zUqq9GmET7	8	Doodles - zUqq9GmET7
9 Lender - P6qZGf9ijj	9	Lender - P6qZGf9ijj
10 Goerli-A - 1XR7kd2U8C	10	Goerli-A - 1XR7kd2U8C

Signature request

Account:
 testing

Balance:
0.096714
GoerliETH

Origin:  <https://testnets.opensea.io>

You are signing:

Message:

Welcome to OpenSea!

Click to sign in and accept the OpenSea Terms of Service: <https://opensea.io/tos>

This request will not trigger a blockchain transaction or cost any gas fees.

Your authentication status will reset after 24 hours.

Wallet address:

0xedb18bf93e9c135634f488d12c143909728f7109

Nonce:

584c66d6-7d01-4914-934a-84eb97f73452

Cancel

Sign

Explore, collect, and sell NFTs

My wallet  0x6db...7109

Total balance **\$126.87 USD**

Add Funds

Trending Top

COLLECTION	FLOOR PRICE	VOLUME
1 Blockies - MGRf3kF8TG	0.60 ETH	2 ETH
2 MQBC1155	< 0.01 ETH	2 ETH
3 TestOS 103D	—	1 ETH
4 PhaselTesting	—	1 ETH
5 Cryptobetties - 8Me17Ngsv7	—	1 ETH
6 Azuki - rIoDmots42	0.0067 ETH	0.0067 USD
7 PrimeMonalisaF	0.0067 ETH	0.0067 USD
8 Doodles - zUqqg9GmE17	0.0067 ETH	0.0067 USD
9 Lender - P8qZGf5fjj	0.0067 ETH	0.0067 USD
10 Goerli-A - lXR7kd2U8C	0.0067 ETH	0.0067 USD

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What is OpenSea? The World's Largest NFT Marketplace  OpenSea Statistics 2022: Use Case Report  OpenSea, the largest NFT marketplace  OpenSea, the largest NFT marketplace  Other Bookmarks

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Name *

Panaverse DAO Logo

External link

OpenSea will include a link to this URL on this item's detail page so that users can click to learn more about it. You are welcome to link to your own webpage with more details.

<https://www.panaverse.co/>

Description

The description will be included on the item's detail page underneath its image. Markdown syntax is supported.

Logo of the Panaverse DAO

<https://testnets.opensea.io/assets/qoerli0xf4910c763ed4e47a585e2d34baa9a4b611ae448c/10751184310706239991138279527371873>
22873231599781756762181812533941645749518337/



Q Search items, collections, and accounts

My Collections

Create, curate, and manage collections of unique NFTs to share and sell. ⓘ

Create a collection

⋮



<https://opensea.io/assets/ethereum/0x495f947276749ce646f68ac8c248420045cb7b5e/73782911227094328344895653986009542173>

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456616826702744110379126603811542532097 / Panaverse DAO Logo

Owned by you 1 view

Price History

All time

Description

By you

The logo of the Panaverse DAO

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OpenSea

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0.00 total volume floor price best offer 0% listed 100% unique owners

Activity

Status Buy Now On Auction

Price Quantity Currency

Search by name or attribute

Price low to high

Make collection offer

Item

Panaverse DAO Logo

What are DAI and USDC?



- Dai is a stablecoin cryptocurrency on the Ethereum blockchain which aims to keep its value as close to one United States dollar as possible through a system of smart contracts and the decentralized participants which those contracts incentivize to perform maintenance and governance functions.
- Dai and USDC (US Dollar Coin) are widely considered to be some of the safest stablecoins. Here's why. Stablecoins tout some pretty attractive benefits. As a cryptocurrency that's pegged to an external asset (and therefore stable), stablecoins are framed as the best of both worlds between traditional currency and crypto.
- Unlike USDC, Tether and the majority of other major stable cryptocurrencies, DAI is decentralized, which means that no centralized organization controls the supply of new DAIs in circulation.
- USDC and Tether have a reserve of actual US dollars, bonds and other securities that will "back up" every single unit of USDC and tether that exists, and is controlled by a centralized organization.

DAI – Reserves and Liquidity

- The situation of collateral with DAI is a bit different from USDC and relatively more complicated. DAI tokens are actually over-collateralized in the sense that for every DAI coin in existence, there's 150% of crypto assets backing it.
- Compared to other stablecoins which are backed by USD, DAI is backed by collateral on the Maker platform.
- The collateral is deposited with MakerDAO, which accepts a wide variety of coins, including: ETH, USDC, etc.
- The price of DAI is maintained through smart contracts, instead of having a central organisation to keep the price steady.
- This makes DAI a decentralised stablecoin, where it is not being controlled by a central entity.

Panaverse Stablecoin: TrueBlue

Stablecoins: Everything You Need to Know

<https://cryptobriefing.com/stablecoins-everything-you-need-to-know/>

Why DeFi Giants Aave, Curve May Want Their Own Stablecoins

<https://www.coindesk.com/layer2/2022/08/01/why-defi-giants-aave-curve-may-want-their-own-stablecoins/>

Panaverse DAO Plan Under Development: TrueBlue Coin

https://docs.google.com/presentation/d/1ZY43Sdr4AysDZ0duy1S_XmuJh1tllqnbk_IWVwlki2q/edit?usp=sharing

Challenge Assignment: Become a Liquidity Provider on Uniswap (Goerli Testnet)

Part 1: Provide Liquidity to a existing pool

Getting Started

<https://support.uniswap.org/hc/en-us/sections/8122851346573-Getting-Started>

Tutorial: How to Become a Liquidity Provider on Uniswap

<https://opensea.io/collection/panaverse>

Part 2: Create a New Pool and Provide Liquidity

Youtube tutorial on creating a liquidity pool and coin:

<https://www.youtube.com/watch?v=VPWqKAUsMfy>

[choose the v3 Pool].

Step 1: Get some GoerliETH to perform transactions

Step 2: Create your coin

Step 3: Go to uniswap, click on launch app and go to [pool]. And click on Add a pool.

Advanced requirement is that you create a pool of your own Tokens:

<https://tokpie.io/blog/how-create-pool-uniswap-erc20-pair/>

Publish Challenge Assignment: Become a Liquidity Provider on Uniswap (Goerli Testnet)

After you have completed the challenge submit the Your Token's Uniswap Pool URL on:

<https://docs.google.com/forms/d/e/1FAIpQLSdmDMfJNmqdQWNr5fkYrSoZ1u6MbZ4anHGU43uAggX3j2TXKg/viewform>

Also Share:

Twitter and refer to @Panaverse_edu with hashtags #web3 and #uniswap

Like Facebook Page and post:

<https://www.facebook.com/panaverse.dao>

Facebook Group:

<https://www.facebook.com/groups/panaverse>

Panaverse Channels on Panacloud Discord Server:

<https://discord.gg/GggDkBwJDr>



Panaverse DAO

The Web 3.0 & Metaverse Team

www.panaverse.co
<https://discord.gg/GggDkBwJDr>
https://twitter.com/Panaverse_edu
<https://www.facebook.com/groups/panaverse>

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