

# Cryptocurrency



# Agenda

**Concept of Blockchain.**

**Crypto Currency (what it is & how it works).**

**Types of Crypto Currency (coins, tokens).**

**Crypto-related Keys (public/private).**

**Types of Crypto Wallets (custodial vs non-custodial).**

**Why Crypto Attracts Scammers.**

**Latest Modus Operandi in India.**

**How to Invest Safely.**

**How to Assess Whether a Coin/Token Is Investable.**

**If You're a Victim: Act Immediately.**

**Key Reporting Portals & Resources (1930, NCRP).**

# What is Cryptocurrency??



- A digital representation of value that is not issued or guaranteed by a central bank or a public authority
- It is not necessarily attached to a legally established currency
- It does not possess a legal status of currency or money, but is accepted by natural or legal persons as a means of exchange
- It can be transferred stored and traded electronically

# Different Cryptocurrencies



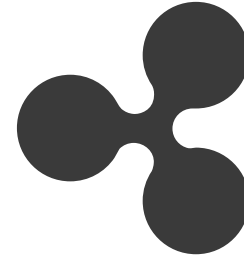
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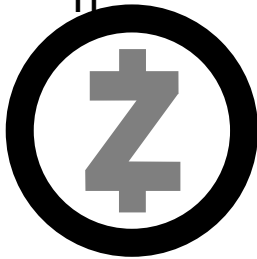
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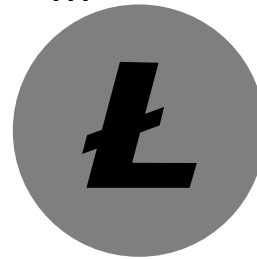
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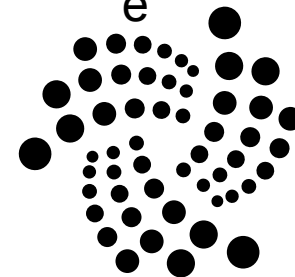
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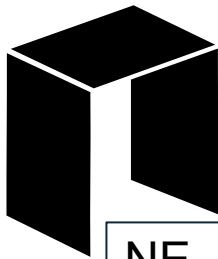
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Moner

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# Cryptoasset (Virtual Digital Assets)\*

## Native Cryptocurrencies

## Tokens

Transparent

Privacy focused

Fungible Tokens

Non Fungible

Bitcoin

Litecoin

Monero

Zcash

DAI

Tether

Poly  
math

Golem

ENS

Cryptokittie



# What do need to perform crypto transaction?

Bitcoin Address



**SHARE**

1G1FL2uC39rVELGP21ur1nbAe6jWq8wczX

Private Key



**SECRET**

KypiHtbzP2g7mEjMn2VUjTT7x3ARrTfC9owSrnNmQ8cTmaxVFTDx



# Public Key

- A public key is a cryptographic code used to facilitate transactions between parties, allowing users to receive cryptocurrencies in their accounts.

- Public Key: Shared address for receiving crypto.

- Example of bitcoin public key is

“178HGmCfR26dSSiFxJQah1U588p2CjgX7f”



# Private Key

- *Private key* is a randomly generated string (numbers and letters), allowing currency to be spent. A *private key* is always mathematically related to the wallet address.
- Private Key: Used to sign transactions — keep secret.
- Example of Bitcoin Private key is

“5KMUPzQGbCxWofEcCwQAZGjCx2ZpgekDpGUZrF22YvcgWsmJNfb”

Note : If you have the private key, you can decrypt or resolve any public keys and/or Bitcoin addresses that came from it but vice versa is not true.

# Public Key Representation

Ethereum	<i>0x71C7656EC7ab88b098defB751B7401B5f6d8976F</i>
Monero	4AdUndXHHZ6cfufTMvppY6JwXNouMBzSkbLYfpAV5Usx3skxNgYeYTRj5UzqtReoS44qo9mt mXCqY45DJ852K5Jv2684Rge
Dogecoin	D6fWVp613N3dyLM6Zoghj3dZaEjbGZ8gpX
TRON	TDvt5uA9UBdvWJWvbSg2SqZ3MXSsLmA3oK
Ripple	rMX7JTCwp92WX1nyZsL3F8Hgc6ej8Q5Mud
Litecoin	ltc1qcju52q8c3vv2a3uddx9zcna2sfg2mal84pa67z
Solana	Gc6jm5gJVWE5DnjMMgzijghKYQqLTci9hZs7LYHYJs1g
Cosmos	cosmos1sjrfyxwsvsslt4nzwqm0t6shghvylndxzf9tye



# How to Get Cryptocurrency?



Purchase through an Exchange



Peer to Peer Purchase



Mining



# Buying Crypto Currency

- Use FIU-IND compliant Indian exchanges.
- Complete KYC with verified credentials.
- Buy via bank or UPI; test withdrawals.
- Avoid P2P or unverified platforms.

# Types of Crypto Currency

- Coins – Native blockchain tokens (Bitcoin, Ethereum).
- Tokens – Built on existing blockchains (USDT, SHIB).
- Stablecoins – Pegged to fiat (USDT, USDC).

# Types of Crypto Wallets

- Custodial: Managed by exchange (Binance, WazirX).
- Non-Custodial: User controls keys (MetaMask, Trust Wallet).
- Hot Wallets: Online, easy access but less secure.
- Cold Wallets: Offline, best for long-term storage.

# How to Invest Safely

- Use registered, compliant exchanges.
- Verify contract address and audits.
- No fixed-return or secret group offers.

# How to Assess Whether a Coin/Token Is Investable

- Check whitepaper, team, and GitHub activity.
- Verify on OSINT platform like [tokensniffer.com](https://tokensniffer.com) and [Coinmarketcap.com](https://coinmarketcap.com) etc.
- Avoid tokens with admin control or poor liquidity.
- See listings on reputed exchanges.

# If You're a Victim: Act Immediately

- Call 1930 immediately (cyber helpline).
- File NCRP complaint at [cybercrime.gov.in](https://cybercrime.gov.in).
- Inform bank/UPI app for freeze request.
- Preserve chat logs, TX IDs, and screenshots.
- Avoid 'recovery' scam offers.

# Crypto Exchanges – Custodial Wallets



How to  
Send,  
Receive,  
Exchange,  
Store  
Crypto  
currency?



# Types of Crypto Wallets



Desktop wallets



Mobile wallets



Cold wallets/  
Hot wallets



Online web wallets



Paper wallets



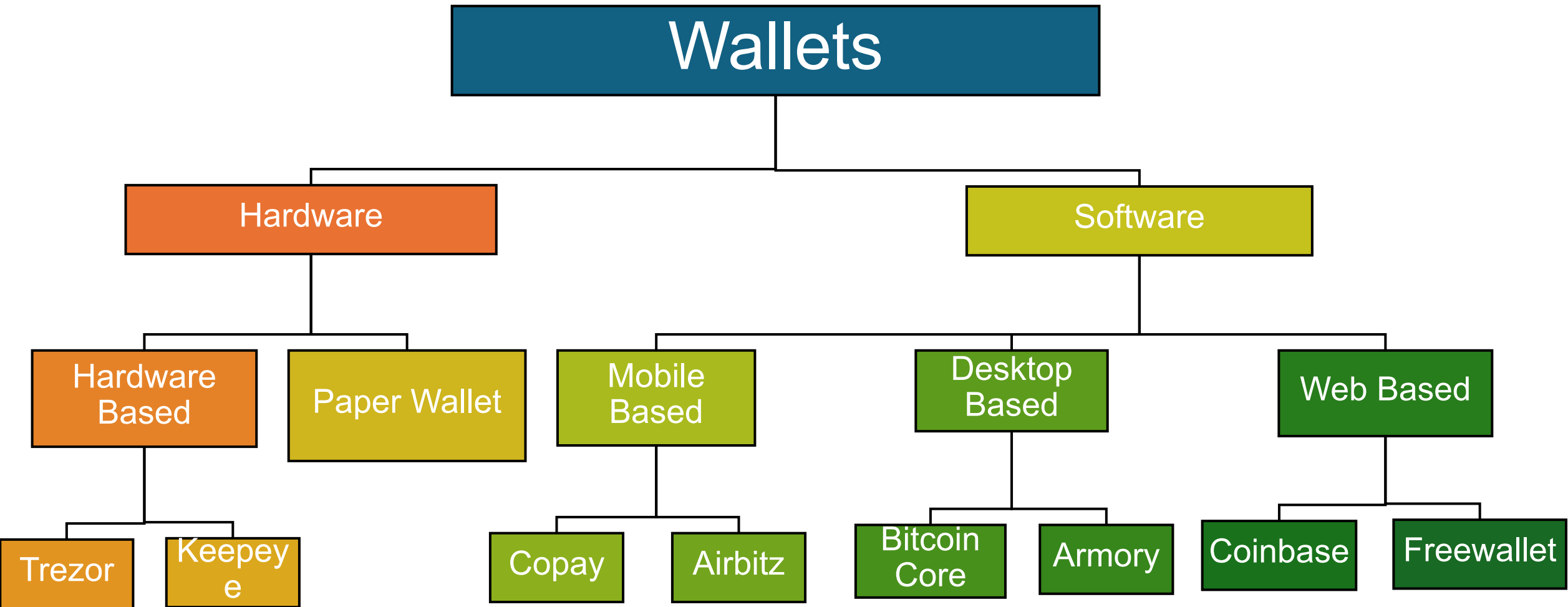
Hardware wallets



Bitcoin wallets



# Cryptocurrency Wallets



# Why Crypto Attracts Scammers

- Anonymity and irreversible transactions.
- High-return promises attract victims.
- Lack of awareness and regulation.
- Deepfake videos and celebrity endorsements.

# Modus Operandi

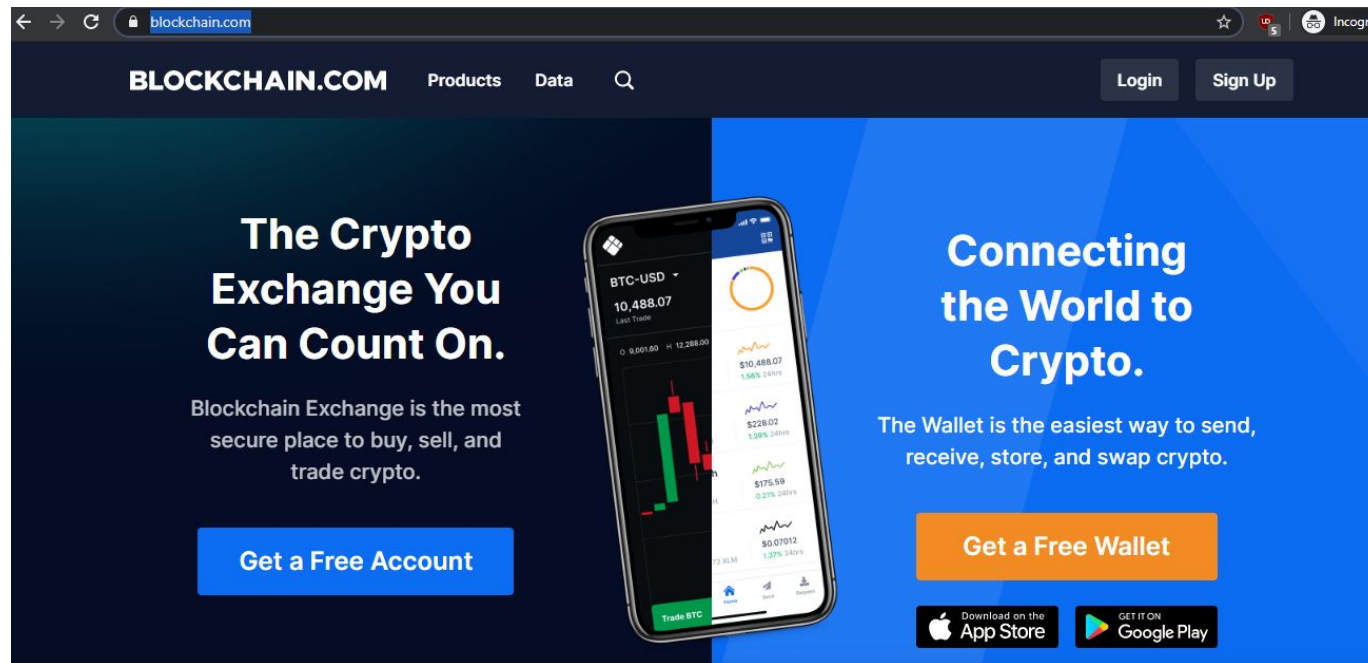
- Task-based Telegram/WhatsApp scams.
- Romance-investment fraud using fake trading apps.
- Fake mining or airdrop phishing links.
- Funds routed: Victim → UPI → USDT → Offshore wallets.

# Hardware Wallets



# Creation of Web Wallets

- <https://www.blockchain.com/>



The screenshot shows the Blockchain.com website in a browser window. The URL bar displays "blockchain.com". The navigation bar includes "BLOCKCHAIN.COM", "Products", "Data", a search icon, and "Login" and "Sign Up" buttons. The main content area features a central image of a smartphone displaying the mobile app interface with various charts and data points. To the left of the phone, the text reads: "The Crypto Exchange You Can Count On." followed by "Blockchain Exchange is the most secure place to buy, sell, and trade crypto." and a blue button labeled "Get a Free Account". To the right of the phone, the text reads: "Connecting the World to Crypto." followed by "The Wallet is the easiest way to send, receive, store, and swap crypto." and an orange button labeled "Get a Free Wallet". At the bottom right, there are two buttons: "Download on the App Store" and "GET IT ON Google Play".

# Creation of Mobile Wallets

- Go to Play store

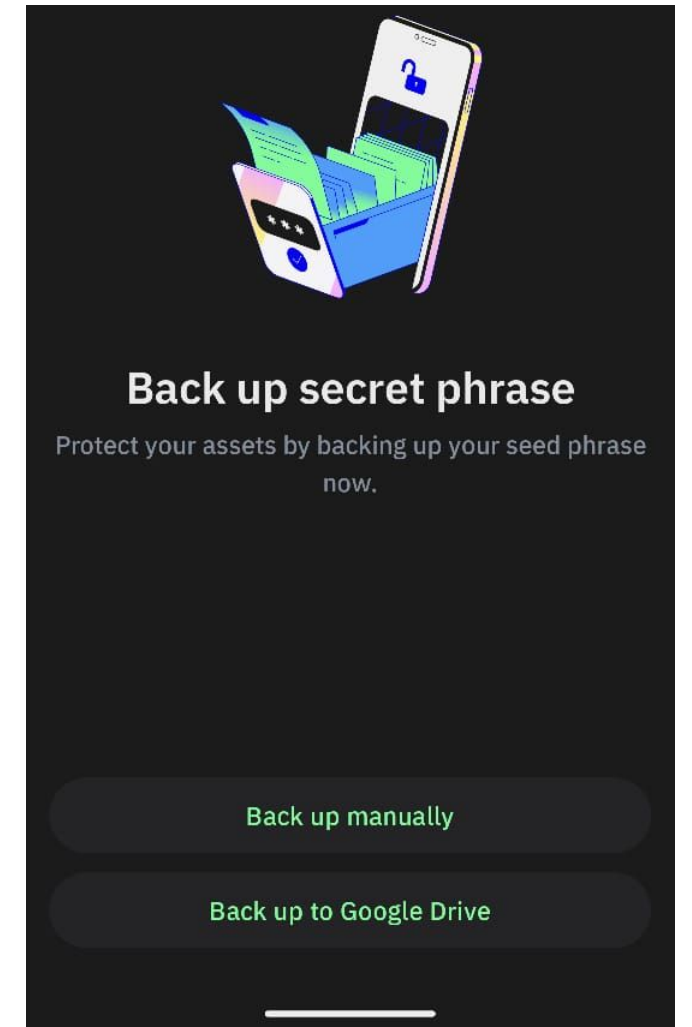
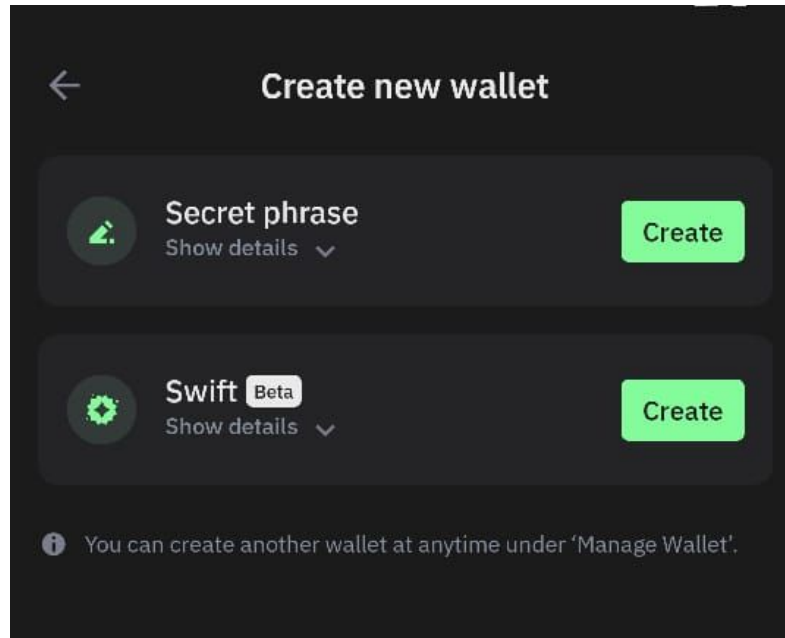
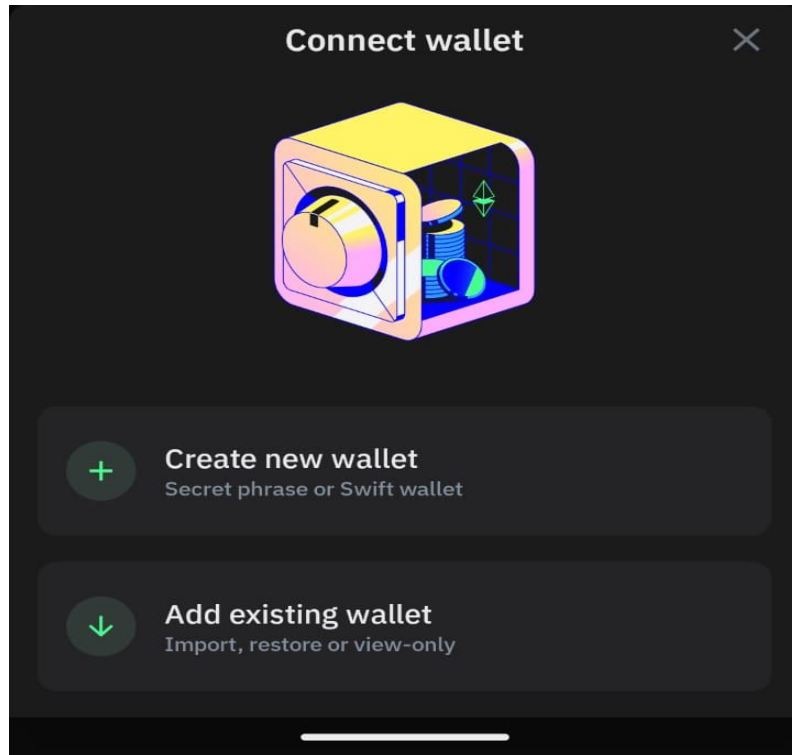


**Trust Wallet**



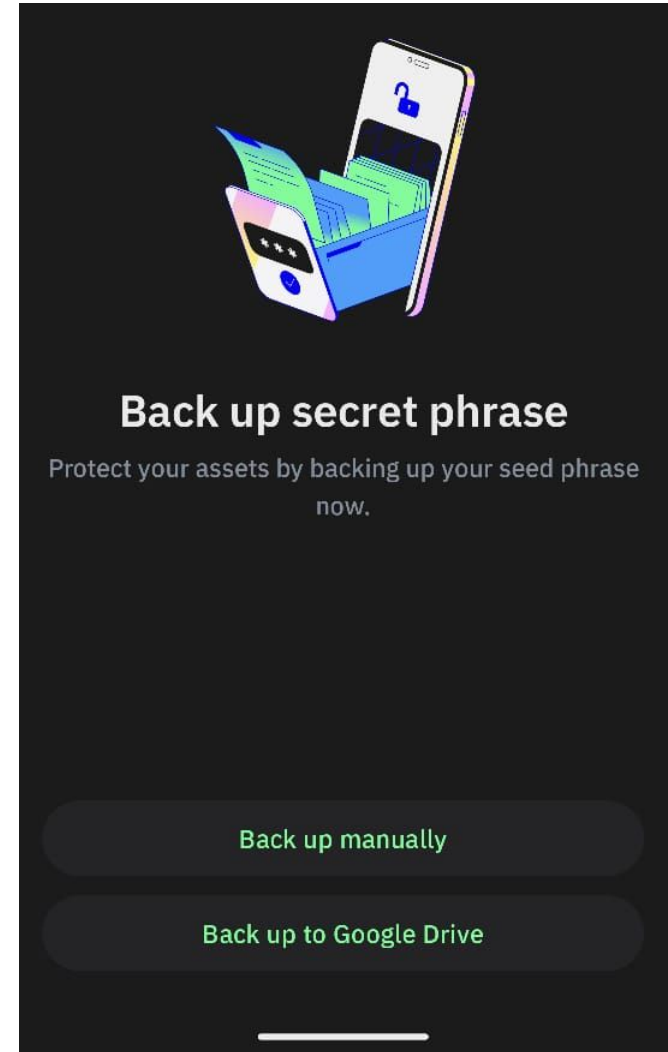
**METAMASK**

# Creation of the wallet



# Secret Phrase/Seed Phrase

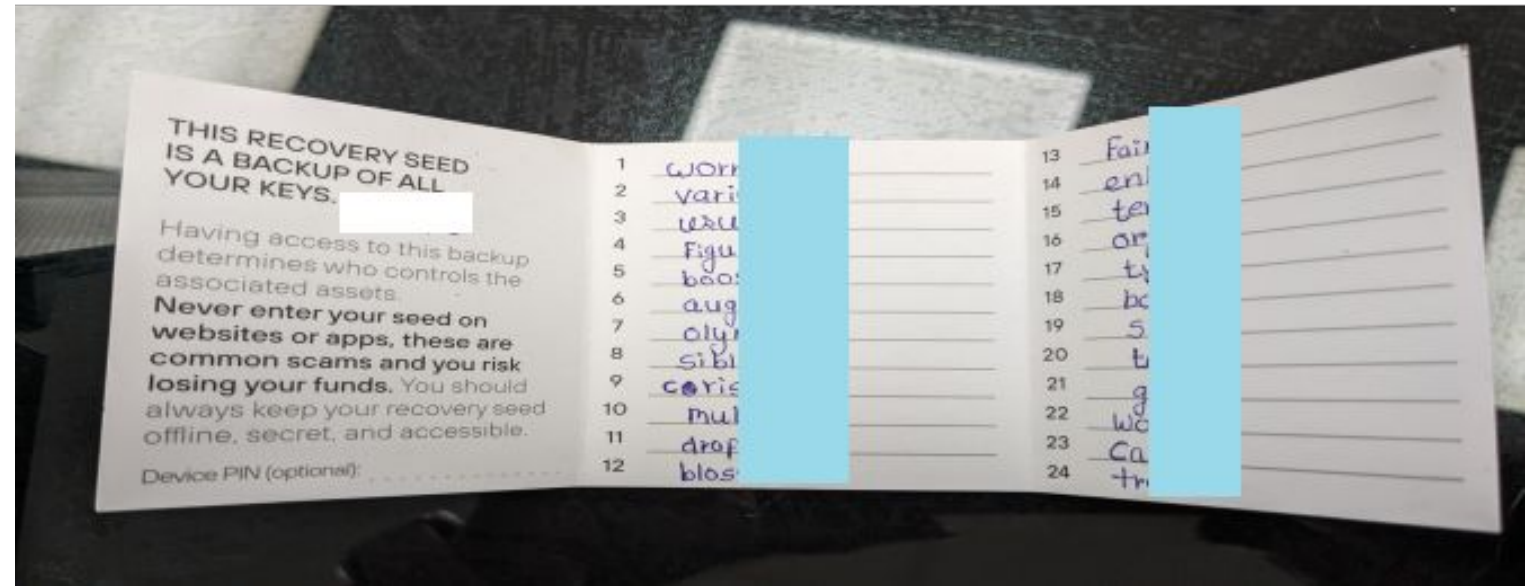
The recovery phrase is a crucial element for the security of your Trust Wallet. If your device is lost, damaged or stolen, you can use your recovery phrase to restore access to your entire wallet. Therefore, it is important to keep your recovery phrase or private keys safe.



# Significance of the Wallet Seed Phrase



# 24 Words Seed Phrase



# Seed Phrase in Number Format

## DO NOT DISCLOSE THE SEED TO ANYBODY

Keep your recovery seed card in a trusted, safe place.  
Never make a digital copy of your seed or store it online as it  
may jeopardize the safety of your assets.

- |           |           |
|-----------|-----------|
| 1. 43297  | 13. 30145 |
| 2. 64321  | 14. 95713 |
| 3. 87889  | 15. 08545 |
| 4. 96673  | 16. 13873 |
| 5. 94993  | 17. 30913 |
| 6. 89281  | 18. 32305 |
| 7. 97489  | 19. 86923 |
| 8. 51265  | 20. 18742 |
| 9. 32401  | 21. 93140 |
| 10. 43489 | 22. 47613 |
| 11. 43297 | 23. 21037 |
| 12. 57697 | 24. 48691 |

# Mnemonics – BIP 39 Wordlist

-512	513-640	641-768	769-896	896-1024	1025-1152	1153-1280	1281-14
copy	513 divorce	641 exotic	769 gas	897 hybrid	1025 length	1153 mosquito	1281 par
crystal	514 dizzy	642 expand	770 gasp	<b>898 ice</b>	1026 lens	1154 mother	1282 par
crime	515 doctor	643 expect	771 gate	899 icon	1027 leopard	1155 motion	1283 parl
crisis	516 document	644 expire	772 gather	900 idea	1028 lesson	1156 motor	1284 par
crisis	517 dog	645 explain	773 gauge	901 identify	1029 letter	1157 mountain	1285 par
crisis	518 doll	646 expose	774 gaze	902 idle	1030 level	1158 mouse	1286 pas
crisis	519 dolphin	647 express	775 general	903 ignore	1031 liar	1159 move	1287 pat
crisis	520 domain	648 extend	776 genius	904 ill	1032 liberty	1160 movie	1288 pat
crisis	521 donate	649 extra	777 genre	905 illegal	1033 library	1161 much	1289 pati
crisis	522 donkey	650 eye	778 gentle	906 illness	1034 license	1162 muffin	1290 patr
crisis	523 donor	651 eyebrow	779 genuine	907 image	1035 life	1163 mule	1291 patt
crisis	524 door	<b>652 fabric</b>	780 gesture	908 imitate	1036 lift	1164 multiply	1292 pau
crisis	525 dose	653 face	781 ghost	909 immense	1037 light	1165 muscle	1293 pav
crisis	526 double	654 faculty	782 giant	910 immune	1038 like	1166 museum	1294 pay
crisis	527 dove	655 fade	783 gift	911 impact	1039 limb	1167 mushroom	1295 nea

Safe  
Storage of  
Seed  
Phrase



# Creating Desktop Wallets

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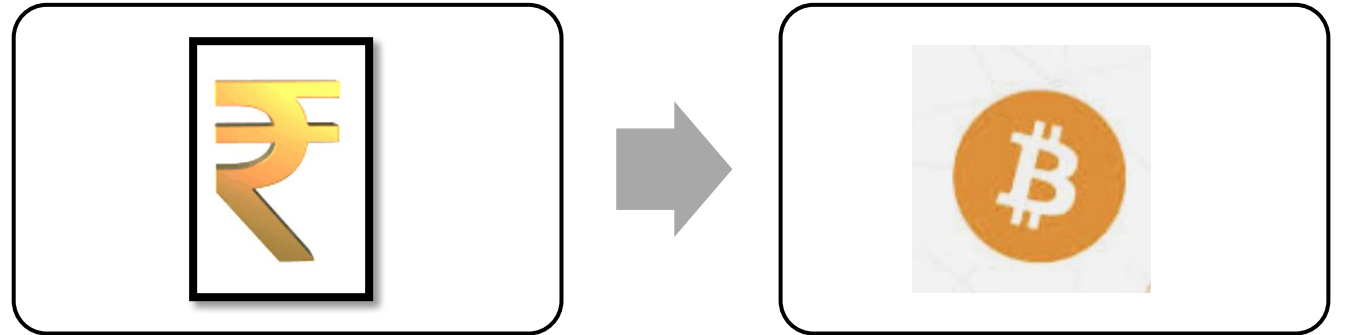


electrum



**EXODUS**

# How to buy Crypto





# Credit Card

**simplex**  
by nuvei

Hi [REDACTED]

Great news! Your payment request was approved.

This approval refers to your purchase of ~0.00472792 BTC for a total of 10000 INR.

The transaction will appear as 'Simplex-Hfinance' on your card statement.

We're now sending the cryptocurrency to your wallet

( [REDACTED]eE43m [REDACTED]xSd ). Once the transaction is registered we'll send you a separate email with the blockchain transaction ID that will allow you to track it yourself.

- Indian Card Works
- No OTP



**Word of Caution – Turn off  
your International Txns**

**Card can be used for  
Crypto Purchase**

# P2P

## Buy USDT from [redacted]

The order is created, please wait for system confirmation. 14:01

### Transferred and Notify Seller

- 1 Transfer payment to Seller
- 2 Pending Seller to Release Cryptos
- 3 Completed

### Confirm order info

Amount	Price	Quantity
₹ 500,000.00	₹ 89.89	5,562.35 USDT

### Transfer the funds to the seller's account provided below. ⓘ

ⓘ Binance only supports real-name verified payment methods.

- UPI
- Google Pay (GPay)
- PhonePe
- IMPS
- Bank Transfer (India)

Name  
[redacted]

Bank account number  
[redacted] 033116

IFSC code  
FDRL0([redacted])

Bank name  
federal bank

More ▾

Receive  
in Crypto

Pay  
in  
INR

# P2P Transaction on WazirX

← Peer to Peer (P2P)

BUY SELL

PRICE INR 91.00

VOLUME USDT 50

TOTAL INR 4550.00

▶ Add preferred seller (Optional)

BUY

Fee: 0.00%


← Peer to Peer (P2P)

Order placed successfully

Cancel

**MATCHING WITH DIRECT SELLERS**

We will email you when your order is matched.  
**Buy Order** 50.00 USDT @ Price ₹91.00



Time taken depends on current demand & your price.  
Placed on May 3, 2024, 6:46:18 AM

Order Id: e04f4dea-7ca8-4a9c-9e35-80f479cb9397

# Modes of Payment in P2P

**Sellers Matched  
Make Payment!**

Completed **0.00 USDT** of **20.00 USDT**  
Placed on May 2, 2024, 10:48:02 PM



[Cancel Order](#)

**Payment # 1 for 20.00 USDT**  
Matched on May 2, 2024, 10:48:14 PM

SELECT PAYMENT MODE WITHIN  
**8 mins, 10 secs**

PAY EXACTLY  
**₹1,842.00**  
(Do not round off!)

**PAY WITH**


Order Id: d563c211-73fb-4719-97c5-d1b67b10dc3f

← Peer to Peer (P2P)


← Back


← Back

**UPI for 49.99 USDT**


PAY EXACTLY  
**₹4,596.58**   
(Do not round off!)

PAY ONLY FROM ACCOUNT PRIYA EKNATH GHURDE

UPI / VPA ID sushantsaini2109-1@okhdfcbank 

PAYMENT REMARKS 9406   
Payments with remarks are processed faster. Add this remark.

**UPLOAD SCREENSHOT OF TRANSFER**

 Upload Here

**SCREENSHOT SHOULD INCLUDE:**

- Amount Transferred
- Transaction ID


[See Example](#)

I have transferred exactly ₹4,596.58 to the above account using PRIYA EKNATH GHURDE's account.


I authorise Wazirx to share this proof with Seller.


**I HAVE PAID**


**Bank Account for 20.00 USDT**


PAY EXACTLY  
**₹1,842.00**   
(Do not round off!)


PAY ONLY FROM ACCOUNT PRIYA EKNATH GHURDE

NAME AYMAAN ALTAF DINGANKAR 


ACCOUNT NUMBER 55550126695368 

IFSC CODE FDRL0005555 

ACCOUNT TYPE Savings 

PAYMENT REMARKS C55F   
Payments with remarks are processed faster. Add this remark.

**UPLOAD SCREENSHOT OF TRANSFER**

 Upload Here

**SCREENSHOT SHOULD INCLUDE:**

- Amount Transferred
- Transaction ID

[See Example](#)

I have transferred exactly ₹1,842.00 to the above account using PRIYA EKNATH GHURDE's account.

I authorise Wazirx to share this proof with Seller.

**I HAVE PAID**

# Crypto - Crimes

Money  
Laundering

Fraud

Extortion

Ransomware

Scam

Theft

Terror  
Financing

Drug  
Trafficking

Child Abuse

Ponzi  
Scheme

# Websites to Visit

Blockchain démo:

- <https://demoblockchain.org/blockchain>

Generating Keys:

- <https://www.bitaddress.org/>

Buying Crypto

- <https://localcoinswap.com>

# Websites to Visit

## Exploring transactions on blockchain:

- <https://www.blockchain.com/explorer>
- <https://blockchair.com/>
- <https://www.blockexplorer.com/>
- <https://www.chainabuse.com/>
- <https://coinatmradar.com/>
- <https://oxt.me/>

## Other Cryptocurrencies:

- <https://ethereum.org/wallets>
- <https://etherscan.io/>
- <https://tronscan.org/>
- <https://bscscan.com>

## Bitcoin:

- <https://bitref.com/>
- <https://www.bitcoinwhoswho.com/>
- <https://www.walletexplorer.com/>
- <https://www.blockonomics.co/>
- <https://hashxp.org/>

## Check Crypto Address:

- <https://cyniq.in/cryptocheck/home.html>

## Open-source tool:

- <https://graphsense.info/>

Email	Purpose
dd-i4c4@gov.in	Amit Sankholia - Mobile Blocking / Telecom Related Issues
dd-i4c3@gov.in dir-i4c1@gov.in	Vishal Dhiman, National Cybercrime Reporting Portal related & 1930
<u>rashmisharma/.1980@delhipolice.gov.in</u> Singh.jiten96@gov.in	Rashmi Sharma, Jitender Singh - JCCT / JMIS / CAIR
<u>dgmi4c@mha.gov.in</u> diri4c@mha.gov.in	Rahul Sahu - Content blocking assistance
<u>cyber.i4c4@mha.gov.in</u>	Rushi Mehta, Critical Investigation Issues / Recommendations / Suggestions
<u>jcct-itss-cifs1-i4c@mha.gov.in</u>	Priya Ghurde - Crypto Investigation Assistance, Pratibimb related queries
<u>dd-i4c5@gov.in</u> dir-i4c4@gov.in	Akhilesh Gaur - Bank related issues / Non Compliances

ceo-i4c@mha.gov.in

**T H A N K**  
**Y O U !**