



Bitcoin 101

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The Problem With Fiat

- **Governments print money at will**
 - Supply increases, value decreases
- **Ongoing inflation**
 - \$100 of spending today $\neq$ \$100 tomorrow
- **Restricted access and control**
 - Banks and governments can freeze, censor, or block access
- **No transparency or fixed rules**
 - Monetary policy changes without your say



Bitcoin Fixes this

- **Fixed supply: not more than 21 million Bitcoin will ever exist**
 - Immune to inflation and currency devaluation
- **Decentralized and open source**
 - No central authority or single point of control
- **Borderless and censorship-resistant**
 - Accessible to anyone with a smartphone and internet connection
- **Self-custody enables true ownership**
 - Users hold their own private keys
 - No reliance on banks or third parties



How Bitcoin Works

- **Global ledger maintained by thousands of nodes**
 - All participants hold and verify the same transaction history
- **New blocks added approximately every 10 minutes**
 - Miners solve mathematical problems to secure the network
- **Consensus rules enforced by software**
 - Changes rarely occur and only with broad agreement
- **Transactions are irreversible once confirmed**
 - Final settlement without intermediaries



What is a Bitcoin Wallet?

- **A wallet stores your private keys, not your Bitcoin**
 - Bitcoin exists on the blockchain; your keys give you control
- **Used to send, receive, and sign transactions**
 - Software builds and signs transactions with your authorization
- **Two main types: software and hardware**
 - **Software:** mobile/desktop apps
 - **Hardware:** offline physical devices (e.g., Blockstream Jade)
- **Still requires software to interact with the network**
 - Hardware wallets sign transactions; software broadcasts them



Choosing the Right Wallet

- **Software wallets**
 - Mobile or desktop apps (e.g. the *Blockstream app*)
 - Ideal for smaller amounts or everyday transactions
- **Hardware wallets**
 - Physical devices (e.g., *Blockstream Jade*)
 - Recommended for long-term savings and higher balances
- **Combined Setup**
 - Use the *Blockstream app* with *Jade* for enhanced security
 - Software creates and broadcasts transactions; hardware signs them offline



Keeping Your Wallet Safe

- **Your wallet creates a recovery phrase (also called a seed phrase)**
 - A list of 12 or 24 words that backs up your wallet
- **Store it offline, never digitally**
 - Write it down on paper in the correct order; never screenshot or save it in the cloud
- **Never share it with anyone**
 - Anyone who has it can access your Bitcoin
- **Protect your device and wallet app**
 - Use a strong pin code and download only from trusted sources
- **Consider using metal backups for durability**
 - Fire, water, and tamper-resistant (e.g., Blockstream Metal)



Taking Self-custody

- **Self-custody means holding your own private keys**
 - No third party controls your Bitcoin
- **Enables true ownership — this is what makes Bitcoin truly sovereign money**
 - “Not your keys, not your coins”
- **Protects against exchange failures and account freezes**
 - Your funds cannot be seized or restricted
- **Requires personal responsibility**
 - Secure your recovery phrase and wallet access



Wallet vs. Exchange

- **Wallet (Self-Custody)**
 - You hold your private keys
 - Funds cannot be frozen or seized
 - No reliance on third parties
 - Full control, but full responsibility
- **Exchange (Custodial Account)**
 - Platform holds your keys
 - Subject to freezes, hacks, and withdrawal limits
 - Convenient for buying/selling
 - Not true ownership



What is **Blockstream?**

The Future of Finance Runs on Bitcoin

- **Founded in 2014 by Dr. Adam Back**
 - Back is also the inventor of Hashcash, a foundational concept in Bitcoin's proof-of-work
 - Includes Bitcoin Core developers and cryptographers
- **Developer of key Bitcoin technologies**
 - **Hardware:** Blockstream Jade
 - **Layer-2:** Liquid Network and Core Lightning
 - **Software:** Blockstream app and open-source tools
- **Blockstream builds technology for a Bitcoin-powered future.**



Bitcoin Layers:

Mainnet, Lightning, Liquid

- **Mainnet**
 - Bitcoin's base layer
 - Every transaction is recorded directly on the blockchain
 - Most secure and decentralized
- **Lightning Network**
 - A second-layer protocol built on Bitcoin
 - Uses payment channels for fast, low-fee transactions
 - Ideal for everyday spending
- **Liquid Network**
 - A Bitcoin sidechain operated by a federation
 - Ideal for fast, confidential transactions and asset issuance
 - Supports trading of multiple assets, not just Bitcoin



The Blockstream App

Buy, secure, and manage Bitcoin in one place.

- **All-in-one Bitcoin wallet**
 - Buy, receive, send, and manage Bitcoin securely
- **Supports Bitcoin, Liquid, and Lightning**
 - Choose the right network for your needs
- **Fully self-custodial**
 - Only you control your private keys
- **Pairs seamlessly with Blockstream Jade**
 - Enhanced security with hardware signing



iOS



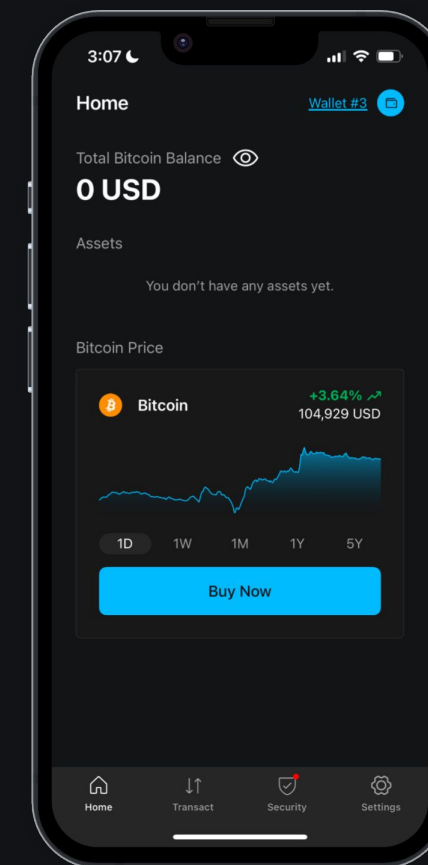
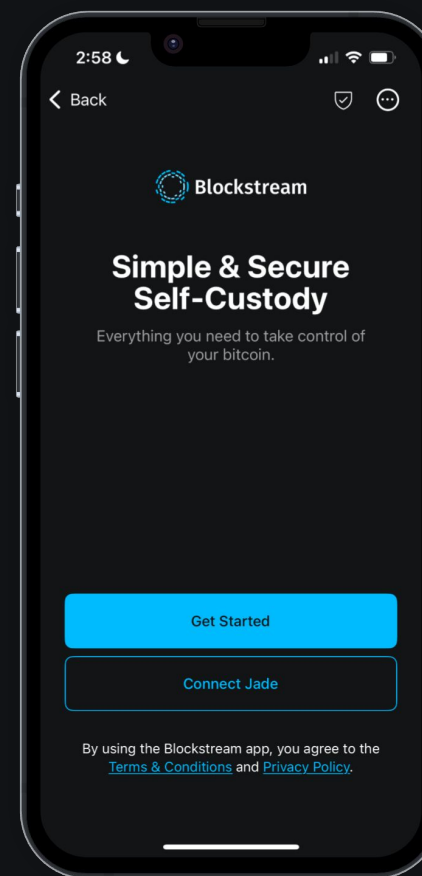
Android



Setup the Blockstream App

Set Up Your Wallet

- Download the Blockstream app
- Select "Setup a New Wallet"
- "Get Started" - "Setup Mobile Wallet" - "Mainnet"

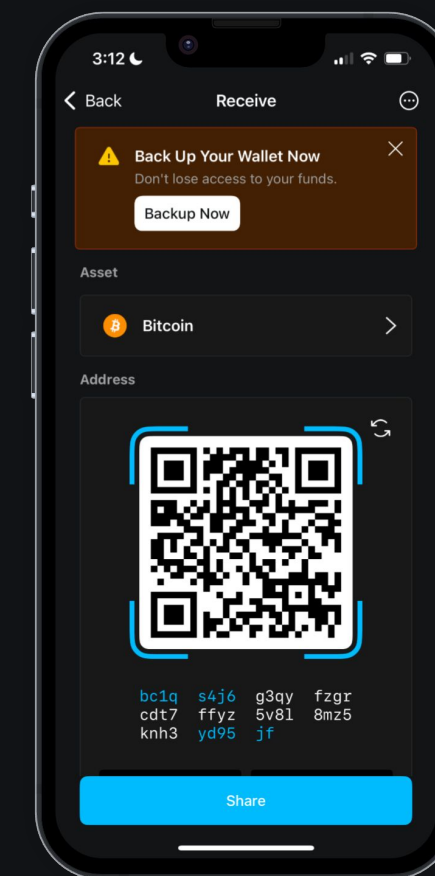
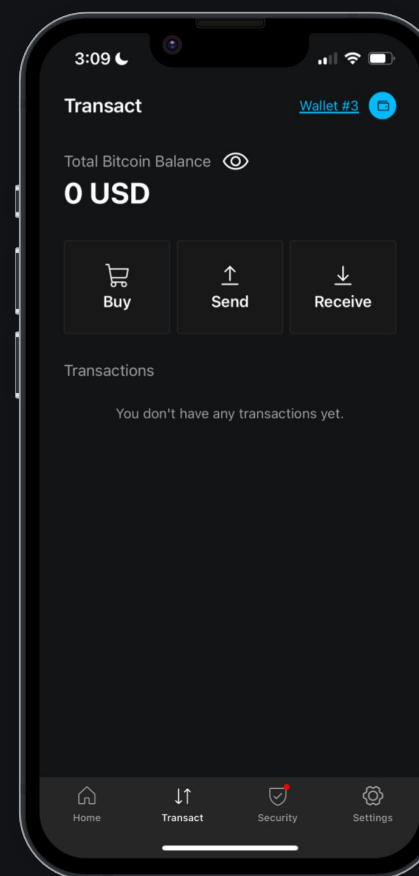




Receiving Bitcoin

In the Transact Tab

- Tap "Receive" from the transact tab
- Make sure that "Bitcoin" the asset is selected
- Share your receive address with your meetup organizer via QR scan
- Watch your Bitcoin go from "unconfirmed" to "confirmed" in the Transact tab in ~10 minutes

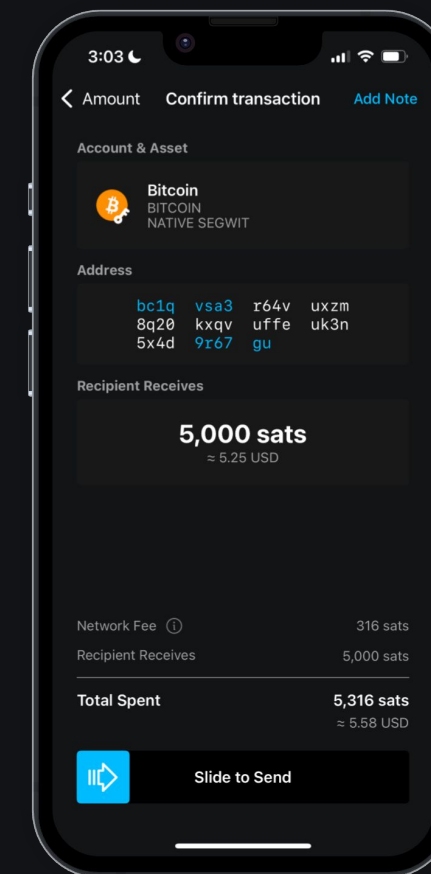
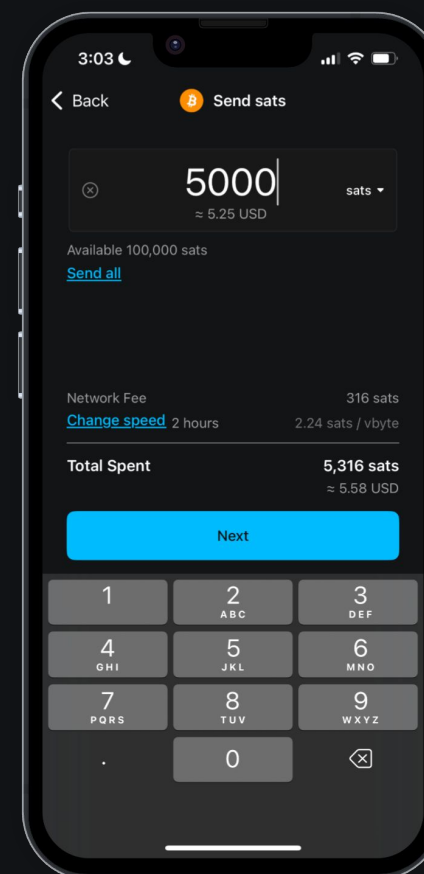




Send Bitcoin

In the Transact Tab

- Tap "Send" from the transact tab
- Use "Scan QR Code" to transact with others in your meetup
- Choose the amount of BTC you want to send
- Review the transaction, add a note, then "Slide to Send"

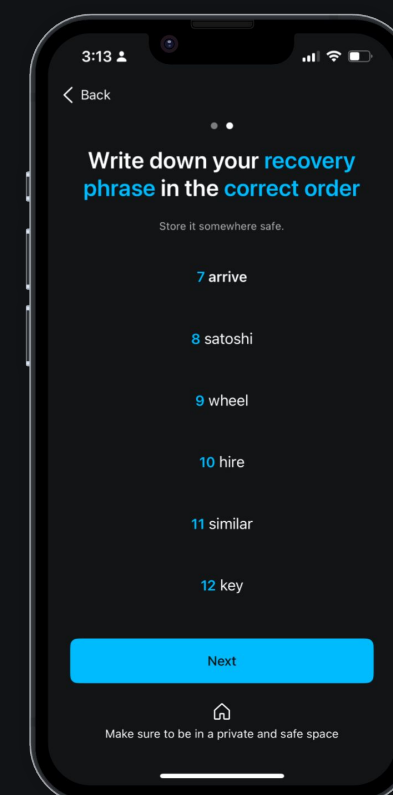
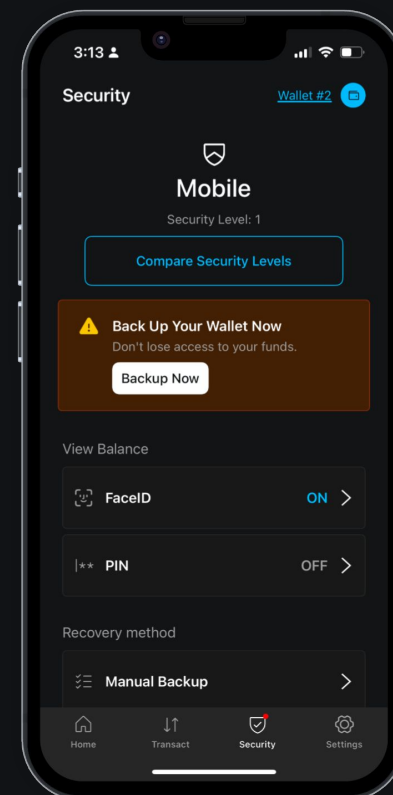




Your recovery phrase
= Your Bitcoin

Backup Your Wallet

- Your wallet creates a 12-word recovery phrase, this is your backup
- Write it down in a secure environment (NOT at the meetup) in order and store it somewhere safe
- Anyone with this recovery phrase can access your Bitcoin, keep it private
- Access your recovery phrase in the "Security" tab

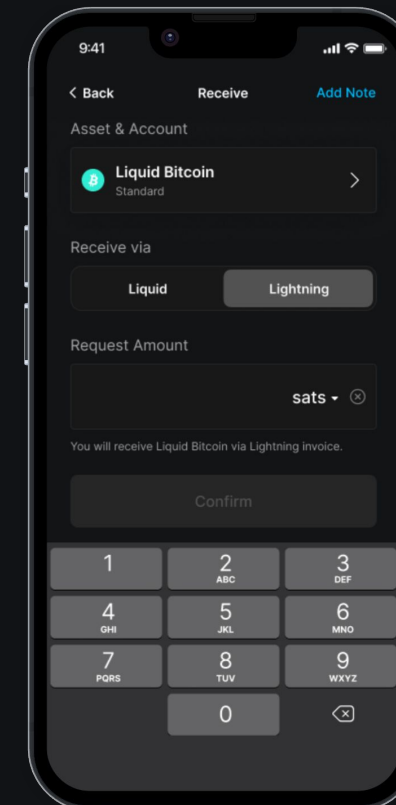
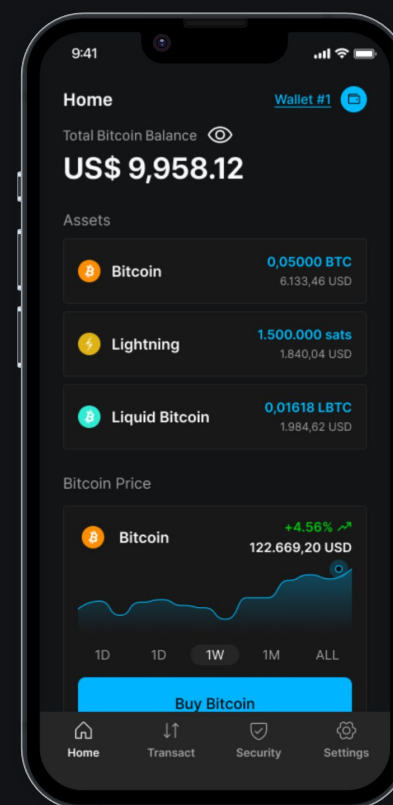




Why Liquid/Lightning Swaps **Exist**

Connecting Bitcoin's speed with settlement flexibility

- Combine Lightning speed with Liquid settlement
- Move value across Bitcoin layers seamlessly
- Preserve privacy, finality, and asset flexibility
- One unified Bitcoin experience inside a single wallet

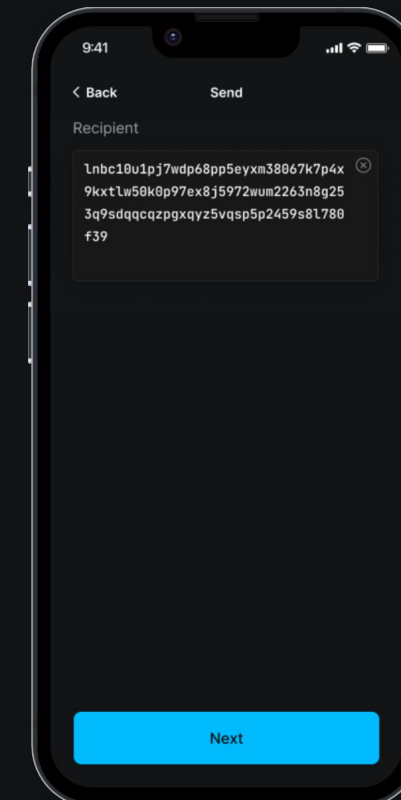
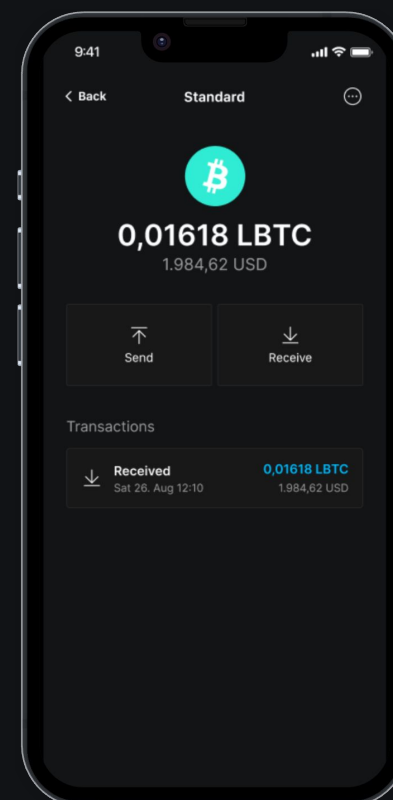




Liquid/Lightning Sending

Pay Lightning invoices using Liquid Bitcoin

- Use L-BTC to pay Lightning invoices instantly
- Scan Lightning QR codes directly from your Liquid balance
- Swap executes automatically inside the wallet
- No exchanges, no intermediaries
- Full self-custody maintained throughout the process

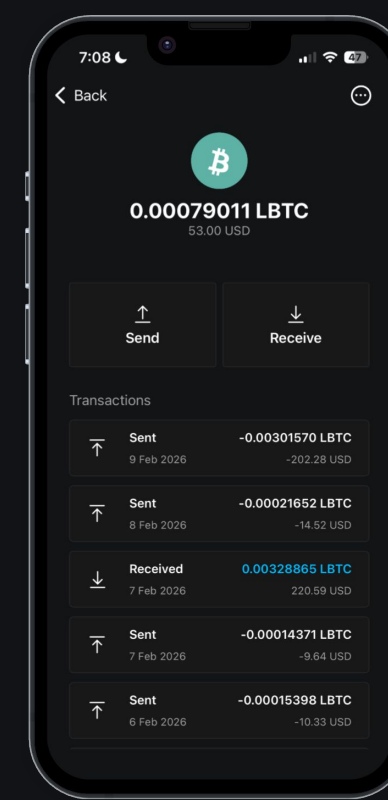
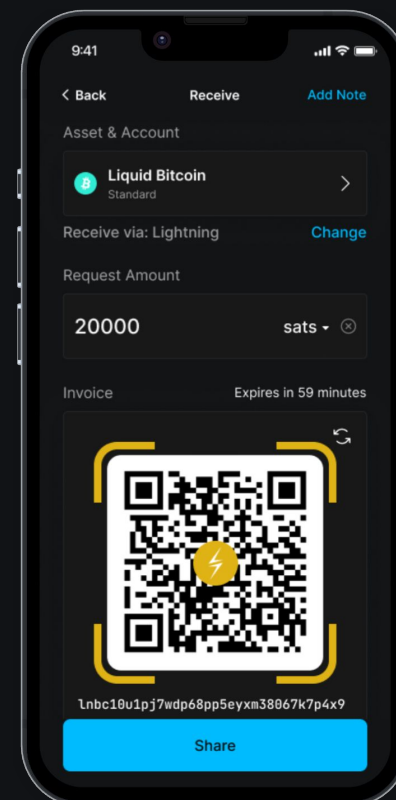




Lightning /Liquid Receiving

Receive via Lightning, settle on Liquid

- Share a Lightning invoice
- Payment routes over Lightning
- Settlement completes on Liquid
- Transaction visible immediately in your wallet
- Seamless cross-layer flow, no custodial handoff

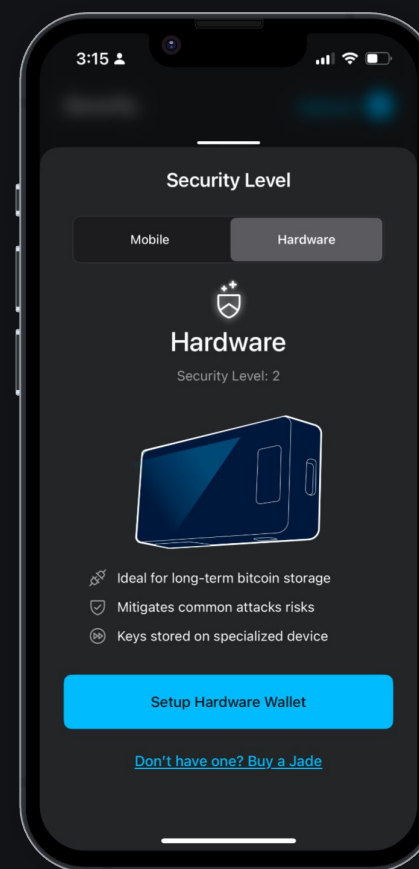




Level up with a **Hardware Wallet**

Bitcoin in Cold Storage

- For larger amounts or long-term storage, use a Blockstream Jade
- Jade stores your keys offline and signs transactions securely
- Adds physical protection against hacks and malware





Go even further with a
Blockstream Metal

Offline Metal Backup

- Paper backups degrade - metal backups last generations
- Use Blockstream Metal to store your recovery phrase indestructibly
- Combine it with Jade for robust, long-term self-custody

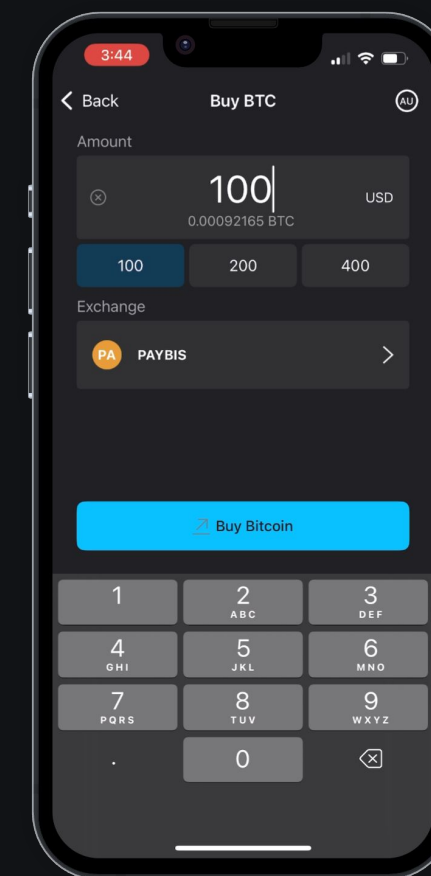
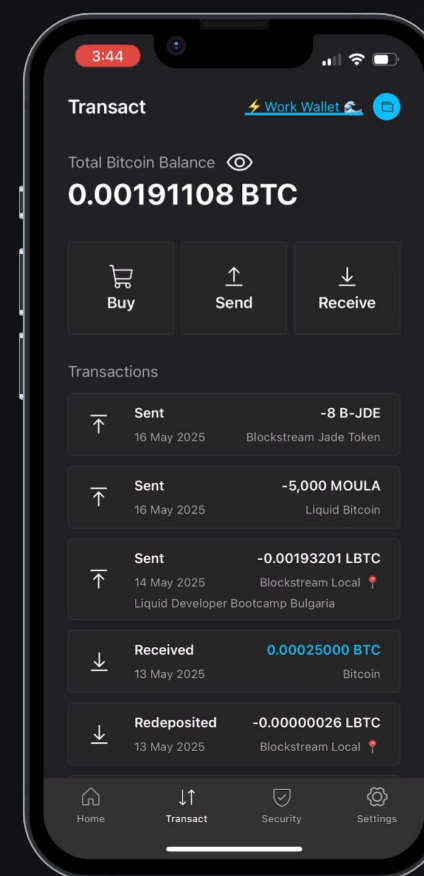




Buying Bitcoin In the **Blockstream App**

Set Up Your Wallet and Tap Buy

- Tap "Buy" from the home or transact tab
- Choose your amount in local currency
- Select an exchange (e.g., Paybis/Transak) and tap "Buy Bitcoin"

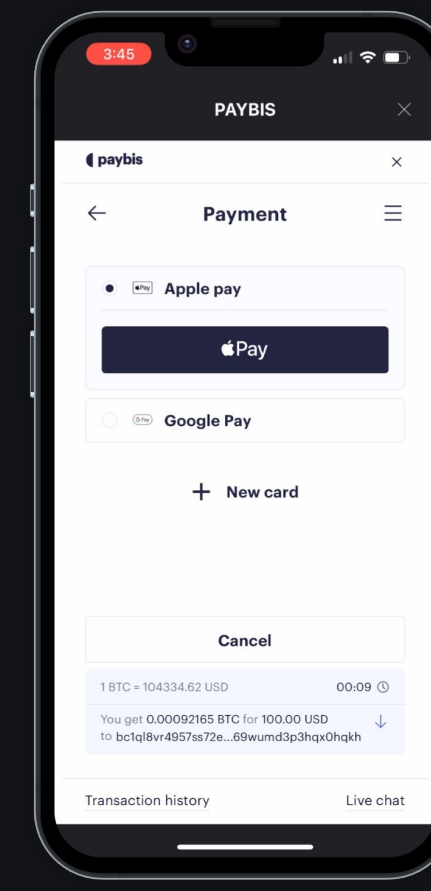
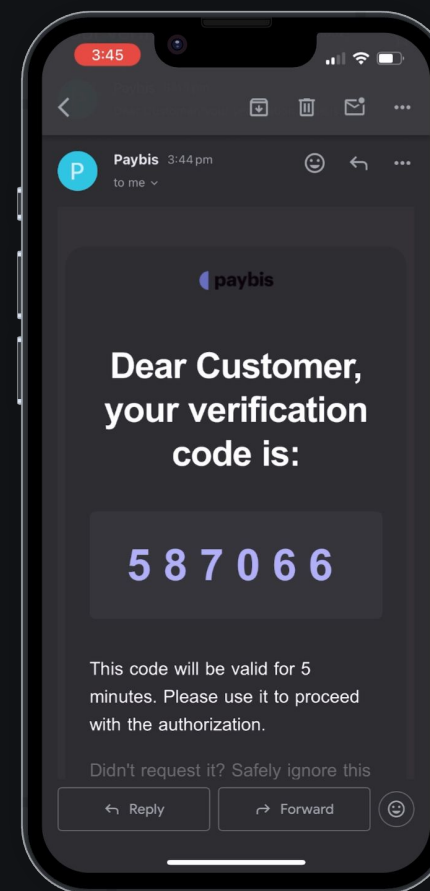




Buying Bitcoin

Verify and Complete the Purchase

- Enter your email and verify using the code sent to you
- Choose a payment method like Apple Pay or Google Pay
- Confirm your transaction within the app
- The exchange sends Bitcoin directly to your wallet address

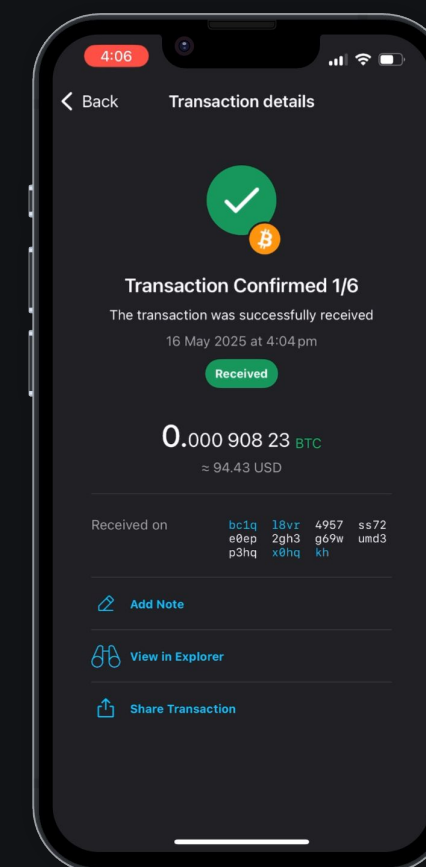
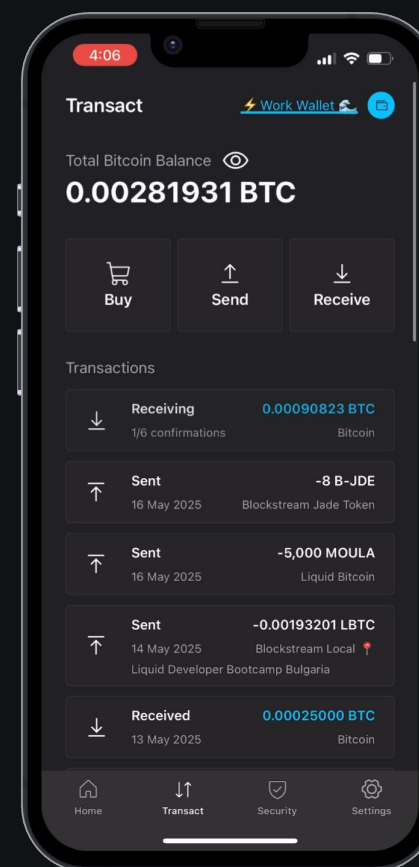




Receiving Bitcoin

Watch Your Bitcoin Arrive

- Return to the Blockstream App to view the incoming transaction
- You'll see it as "Unconfirmed" at first—this is normal
- Once confirmed on the Bitcoin network, your Bitcoin is fully yours





The Future of Finance Runs on  *bitcoin*

 x.com/Blockstream

 linkedin.com/company/Blockstream

 blockstream.com