



Bitcoin 101



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Why Bitcoin Exists

- Every other kind of money is someone else's promise.
- A bank balance is an IOU Bitcoin is the first money you can hold directly, with no one in the middle.
- Fixed supply: 21 million, no one can print more
- Yours to hold: you keep the keys, no permission needed
- Open to anyone: a phone and an internet connection



How Bitcoin **Works**

- A shared ledger, kept by thousands of computers worldwide, all holding the same history
- New transactions are grouped into blocks roughly every 10 minutes
- No company or government runs it. The network enforces the rules
- Once confirmed, a transaction is final. No chargebacks, no middleman



What is a **Bitcoin Wallet?**

- A wallet holds your keys, not your bitcoin. Your bitcoin lives on the blockchain
- Your keys are what let you spend it
- Two kinds: software (an app on your phone) and hardware (an offline device like Blockstream Jade)



Software vs **Hardware**

- Software wallet: an app. Great for smaller, everyday amounts
- Hardware wallet: an offline device. Best for savings and larger amounts
- Best of both: pair the Blockstream app with a Jade.
- The app handles everyday use, the Jade signs offline



Keeping Your **Recovery Phrase Safe**

- Your wallet gives you a recovery phrase: 12 or 24 words that back up everything
- Write it on paper, in order. Never screenshot it, never store it online
- Anyone with these words can take your bitcoin. Never share them
- For durability, use a metal backup that resists fire and water



Self-custody

Your keys, Your Bitcoin

- Self-custody means you hold your own keys. No bank, no exchange, no third party
- Your bitcoin cannot be frozen, seized, or lent out without you
- Not your keys, not your coins
- The trade-off: it is all yours, so keeping it safe is on you



Wallet VS. Exchange

- Your wallet (self-custody): you hold the keys. Full control, full responsibility
- An exchange (custodial): they hold the keys. Convenient to buy and sell, but not truly yours
- Exchanges can freeze accounts, get hacked, or limit withdrawals
- Fine to buy on an exchange, then move it to your own wallet



What is **Blockstream?**

The Future of Finance Runs on Bitcoin

- Founded in 2014 by Dr. Adam Back, inventor of Hashcash, cited in the Bitcoin whitepaper
- A team of Bitcoin contributors and cryptographers
- We build Bitcoin technology: the Jade hardware wallet, the Blockstream app, and layer-2 networks like Core Lightning and Liquid



Bitcoin Layers:

Mainnet, Lightning, Liquid

- Bitcoin's base layer. Most secure, every transaction on-chain
- Lightning: a fast, low-fee layer for everyday payments
- Liquid: a Bitcoin sidechain for fast, Confidential Transactions and issuing assets



The **Blockstream App**

- One app to buy, receive, send, and manage bitcoin
- Works across Bitcoin, Lightning, and Liquid
- Fully self-custodial: only you hold the keys
- Pairs with Blockstream Jade for hardware security



iOS

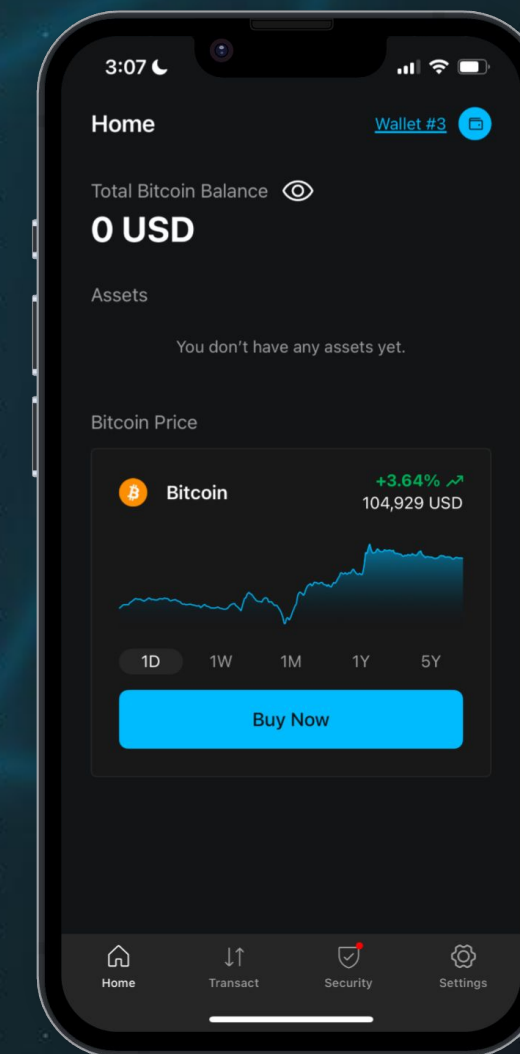
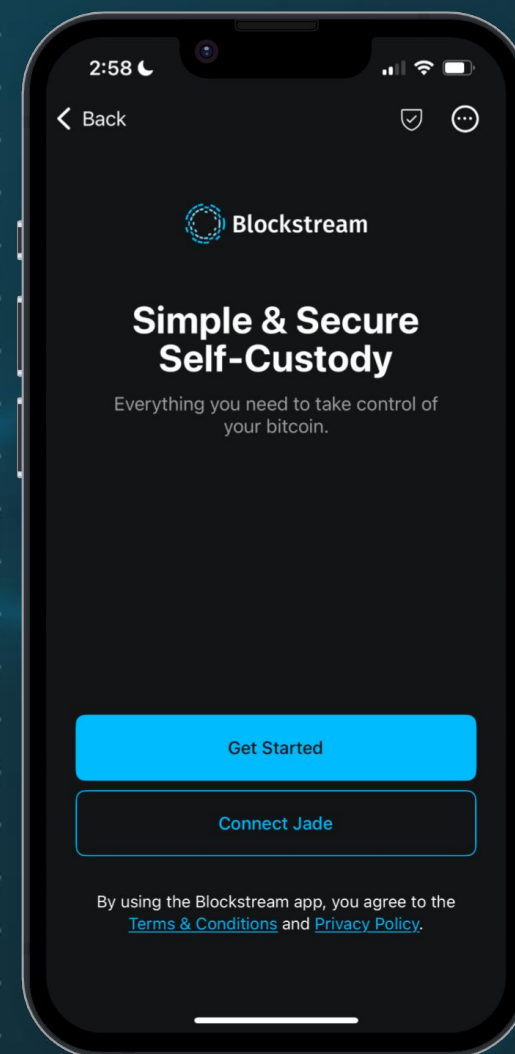


Android



- Download the Blockstream app
- Tap Set up a new wallet
- Get Started, then Set up mobile wallet, then Mainnet

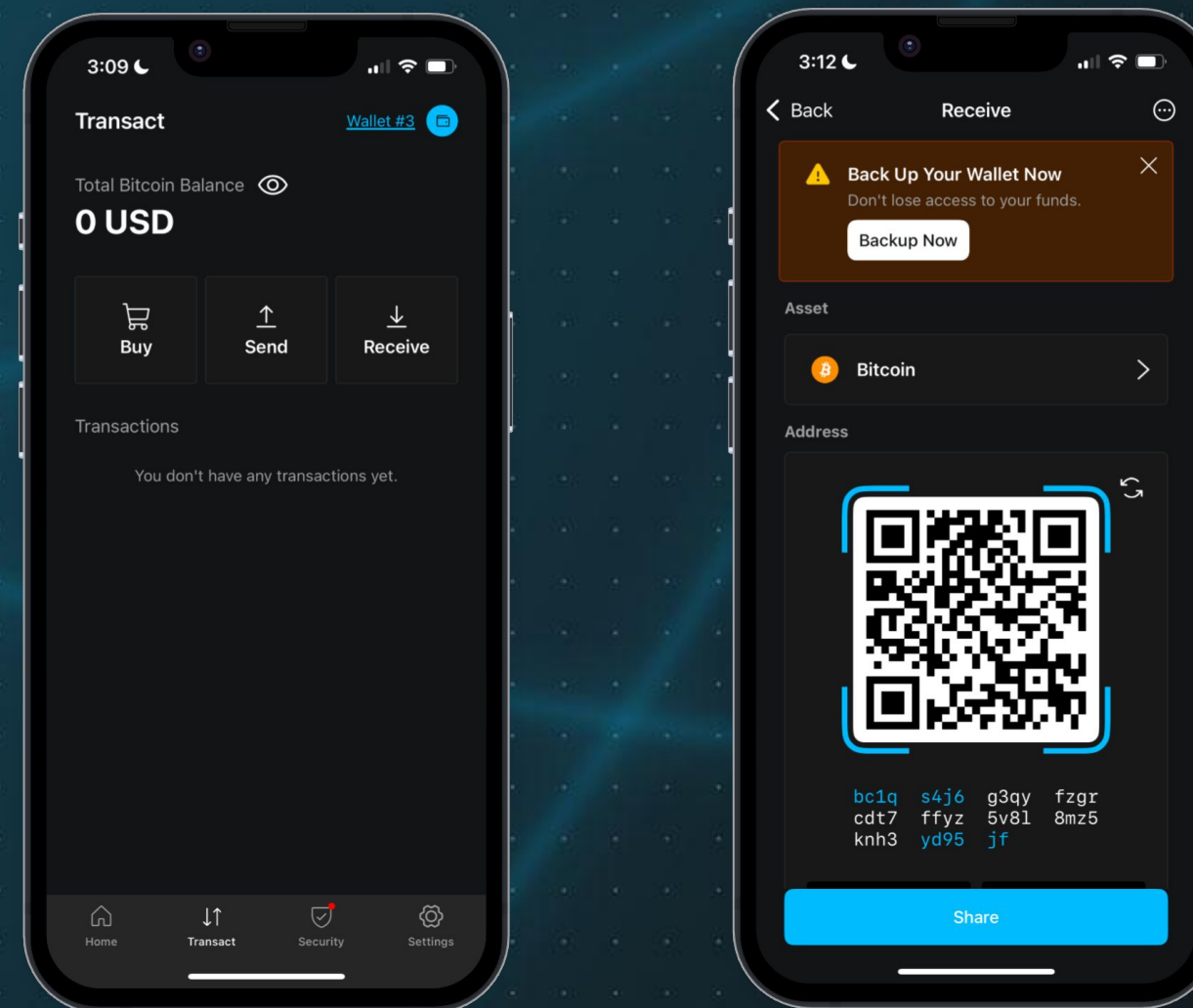
Setup the **Blockstream App**





Receiving Bitcoin

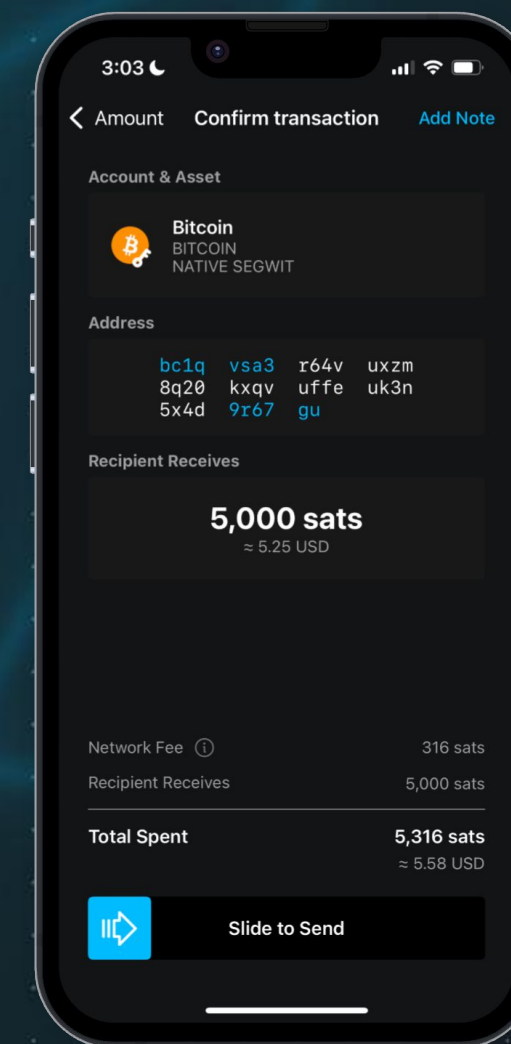
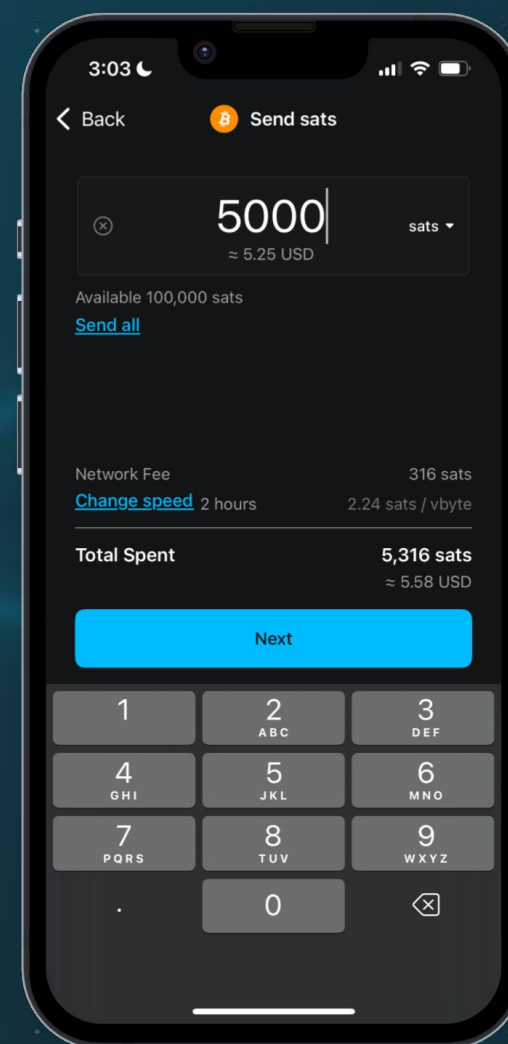
- In the Transact tab, tap Receive
- Make sure Bitcoin is the selected asset
- Share your address by QR with
- Watch it go from unconfirmed to confirmed in about 10 minutes





Send Bitcoin

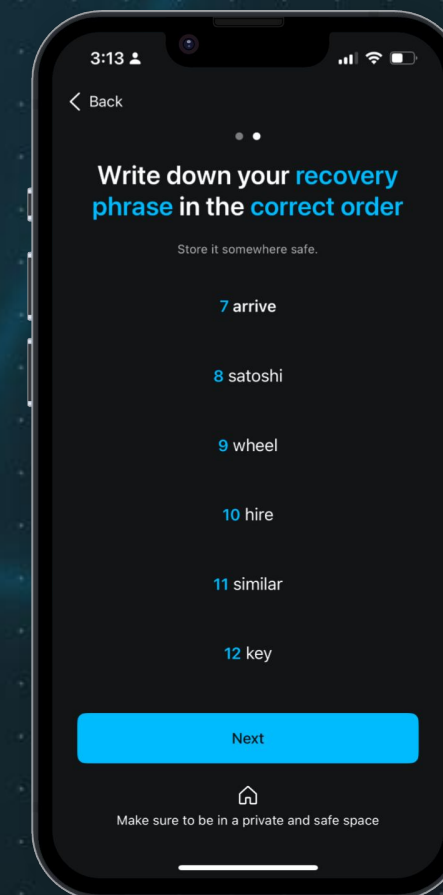
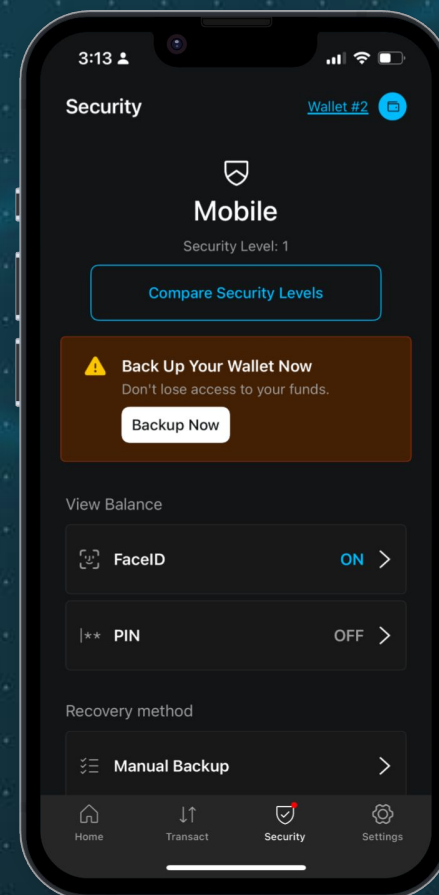
- In the Transact tab, tap Send
- Scan a QR code or paste an address to send Bitcoin
- Choose the amount, add a note, review, then Slide to Send





Your recovery phrase
= Your Bitcoin

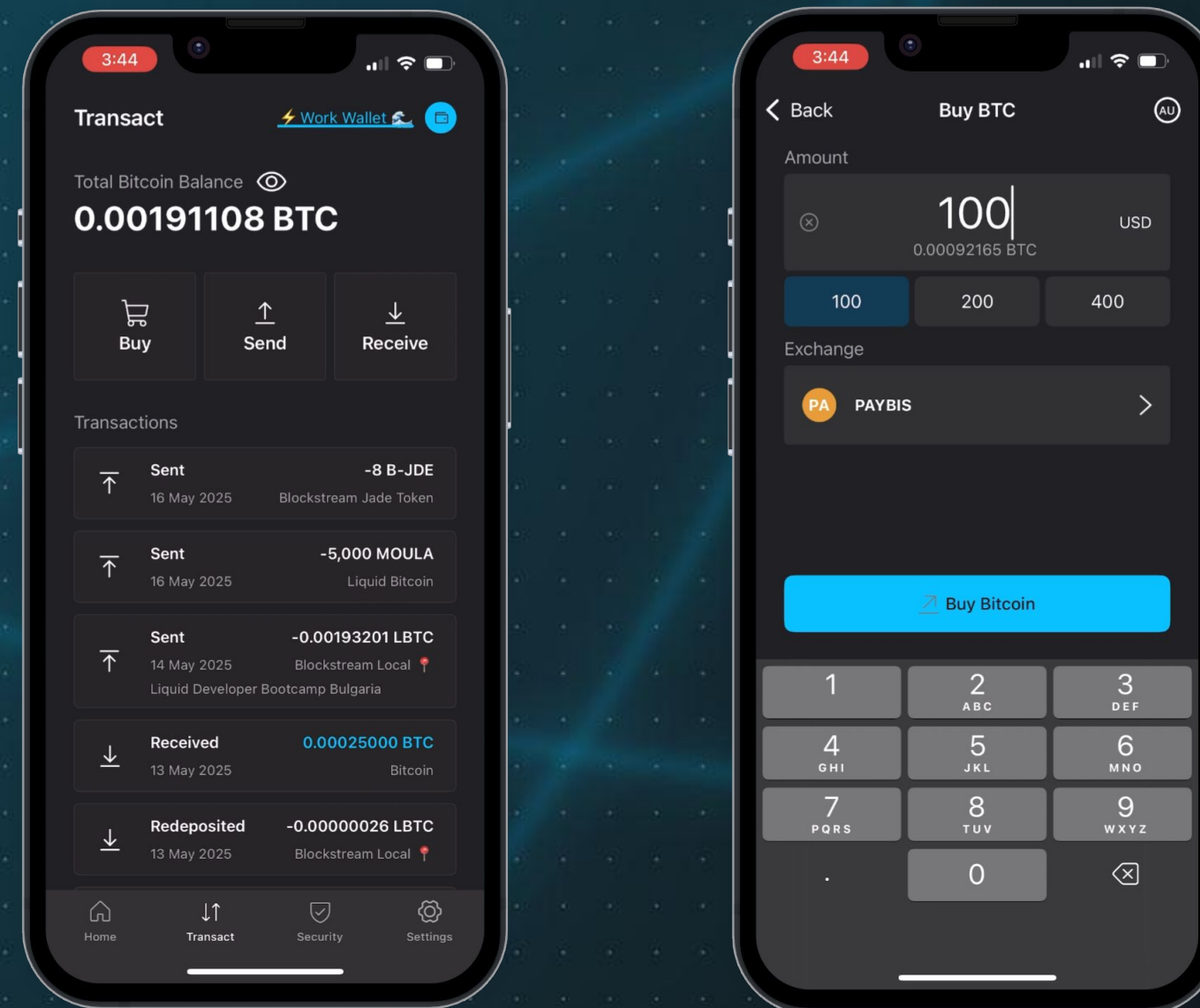
- Your wallet creates a 12-word recovery phrase. This is your backup
- Write it down somewhere private, not at the meetup, in order
- Anyone with it can access your bitcoin. Keep it secret
- Find it in the Security tab





- Tap Buy from the home or Transact tab
- Choose your amount in local currency
- Pick an exchange then tap Buy Bitcoin

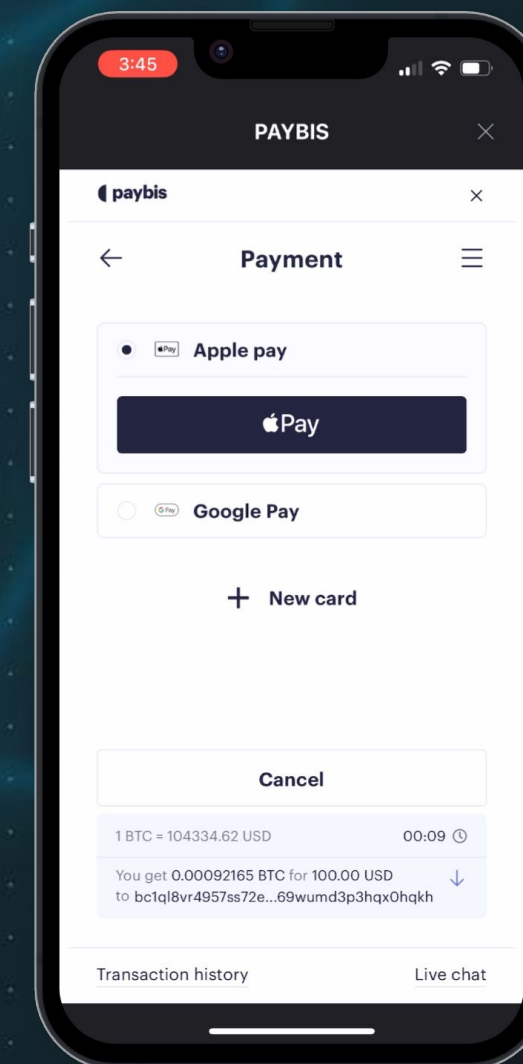
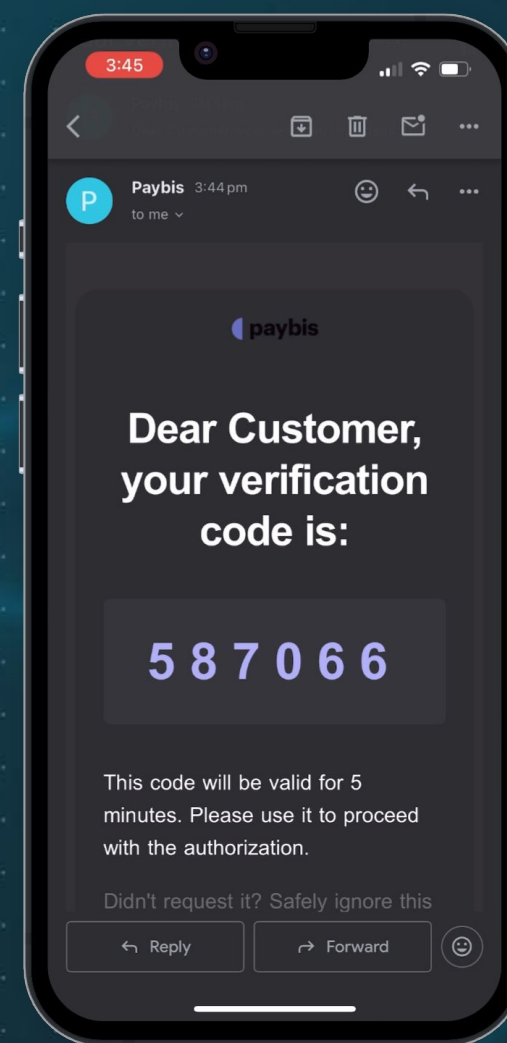
Buying Bitcoin In the **Blockstream App**





Buying Bitcoin

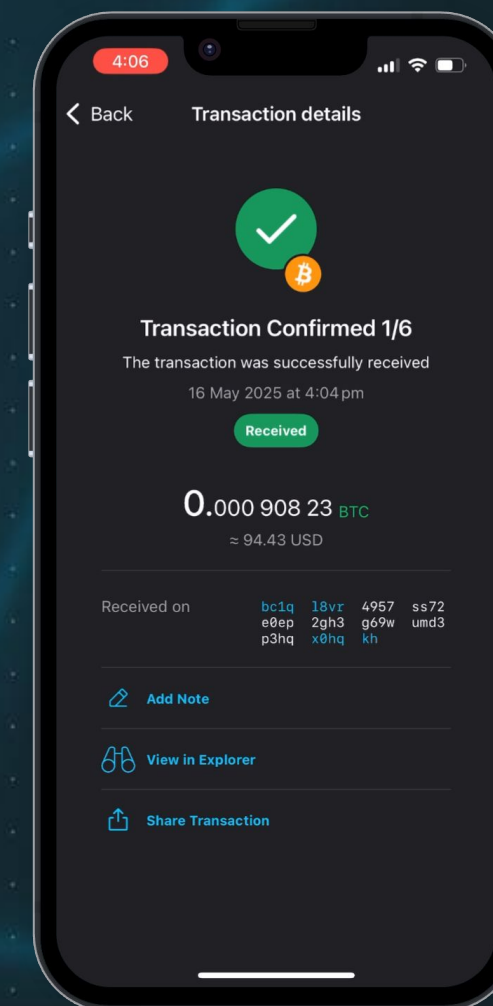
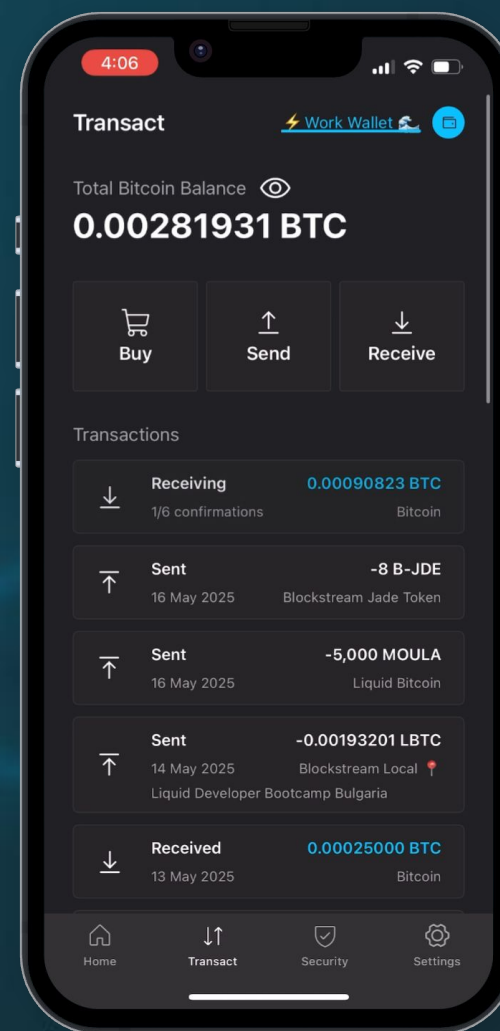
- Enter your email and verify with the code
- Pay with Apple Pay, Google Pay, or card
- Confirm in the app. The exchange sends bitcoin straight to your wallet





Buying Bitcoin

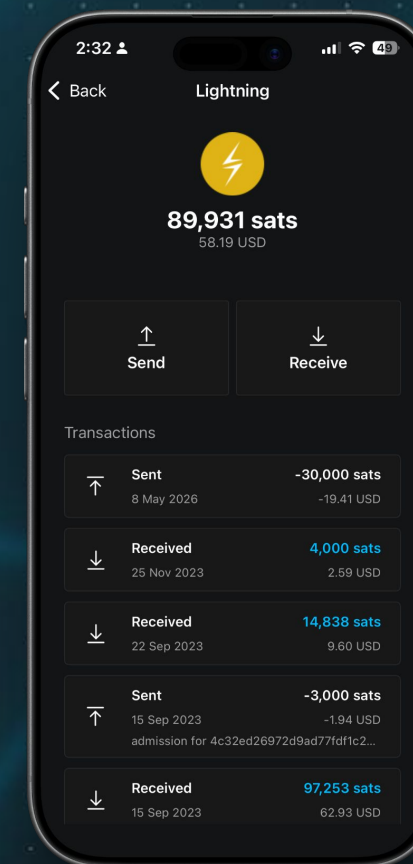
- Back in the app, you will see the incoming transaction
- It shows as unconfirmed at first. That is normal
- Once confirmed on the network, it is fully yours





Lightning: Fast Everyday Payments

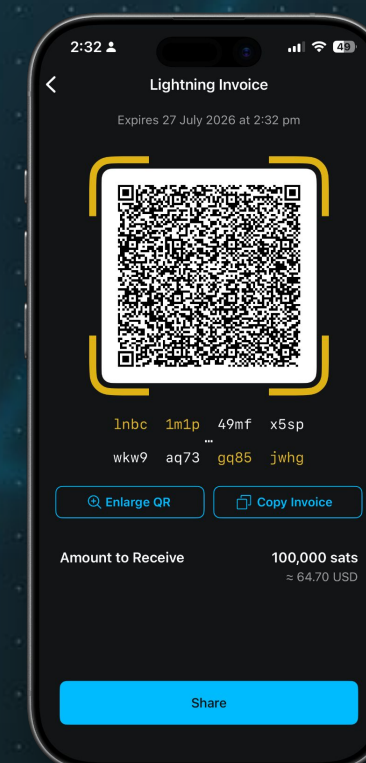
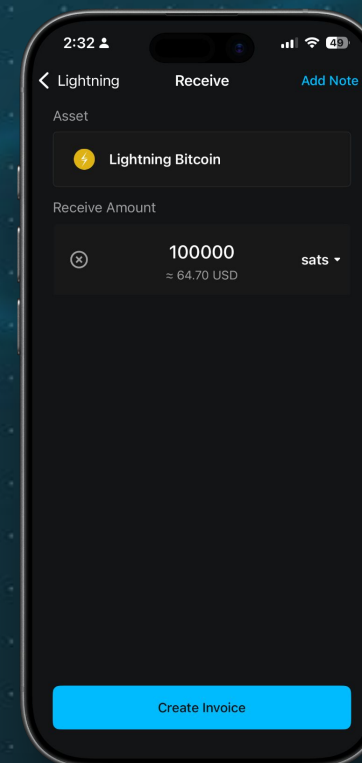
- Lightning is a fast, low-fee layer built on top of Bitcoin
- Made for everyday spending: payments settle in seconds
- Fees are tiny, even for small amounts
- It is the same bitcoin you hold, just a quicker way to send and receive





Receiving Lightning

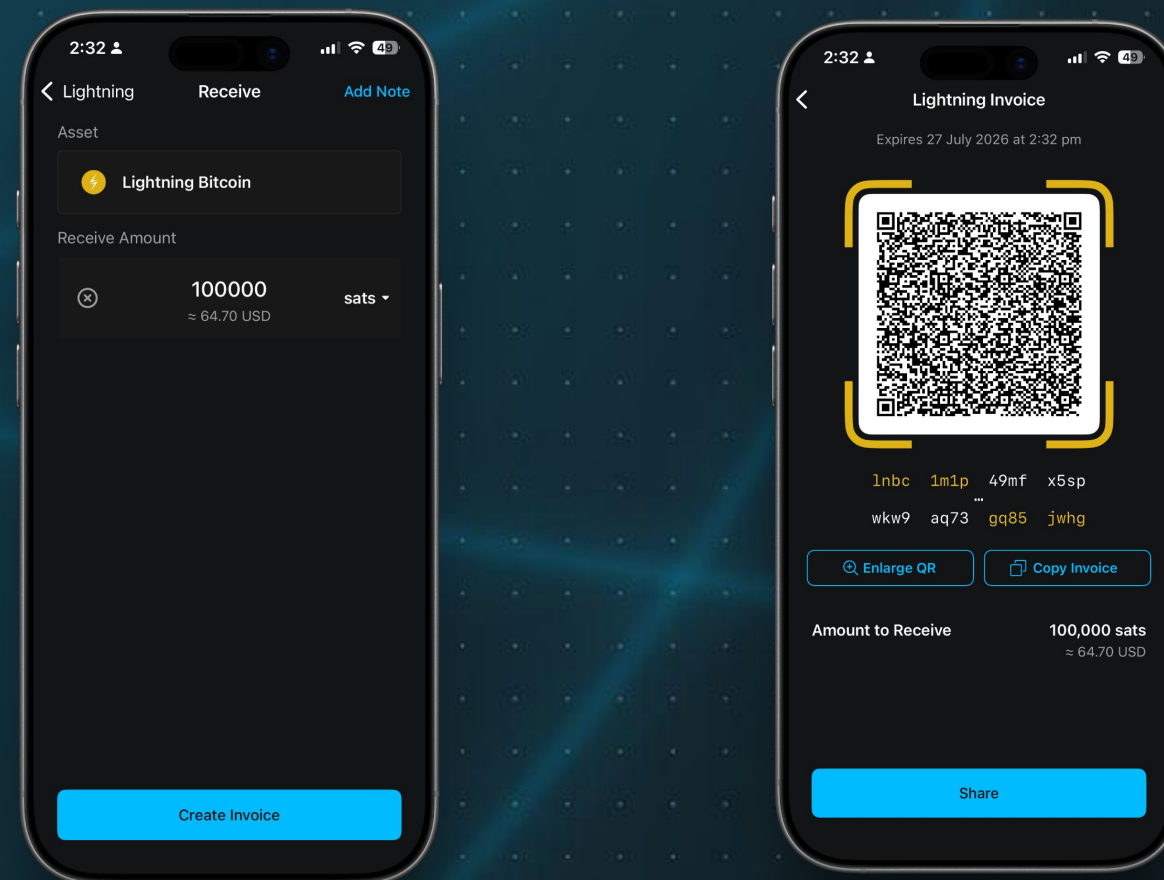
- In the Lightning account, tap Receive
- Enter the amount you want to receive
- Tap Create Invoice, then share the QR or copy the invoice
- The payment lands in your Lightning balance in seconds





- In the Lightning account, tap Send
- Paste a Lightning invoice or scan the QR code
- Check the amount, then Slide to Send
- It arrives almost instantly, with tiny fees

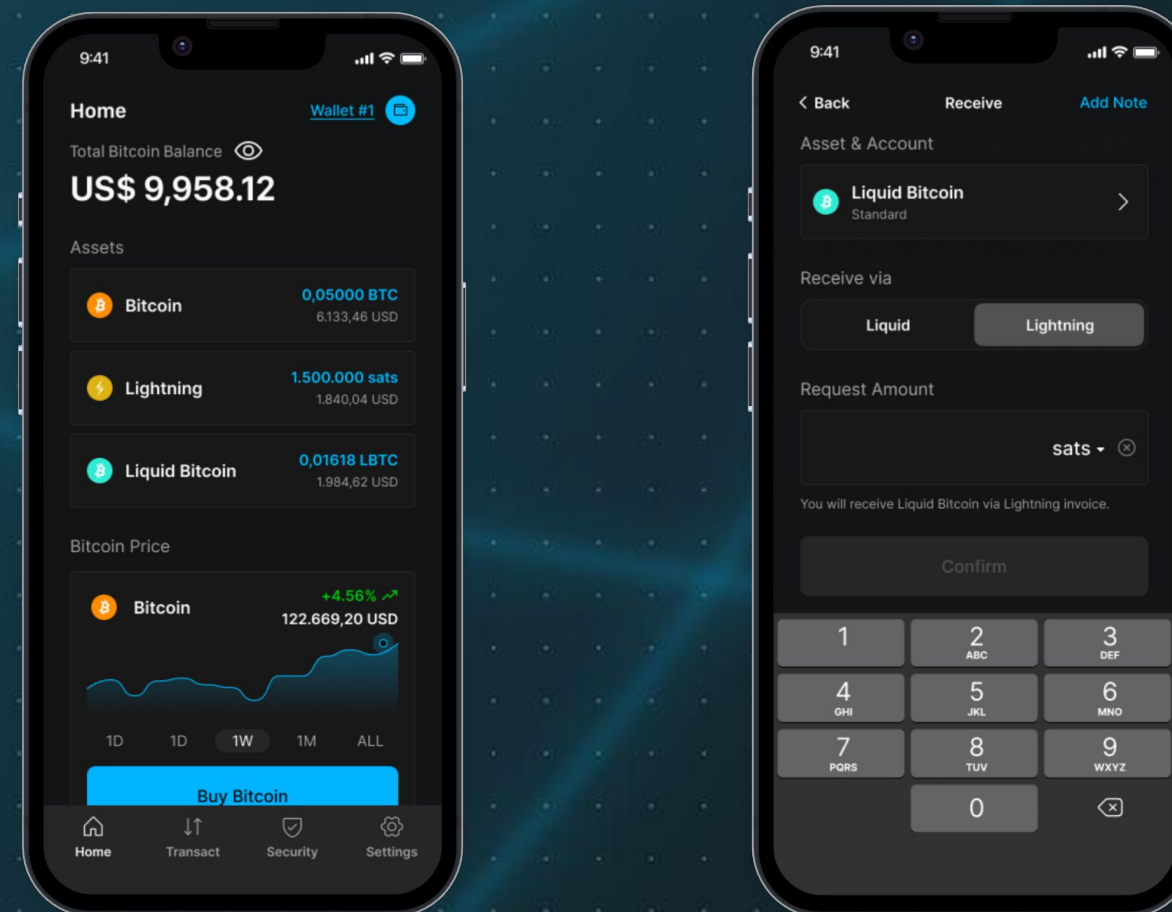
Sending Lightning





- Bitcoin has layers: the base chain, Liquid, and Lightning
- Swaps let you move value across those layers inside one wallet
- Every swap is trustless and self-custodial, no exchange in the middle

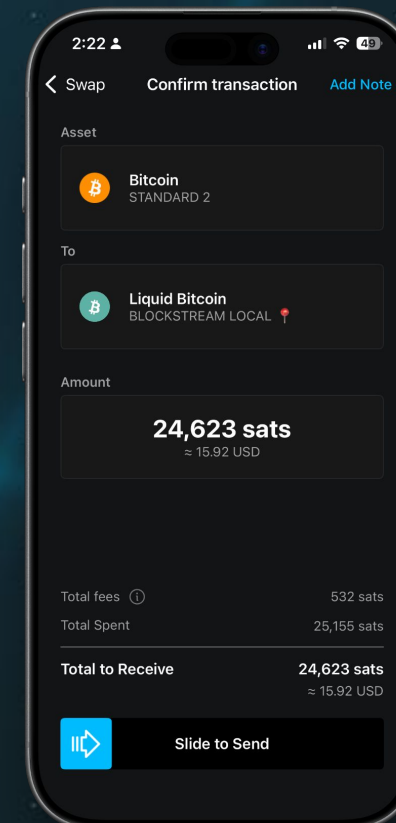
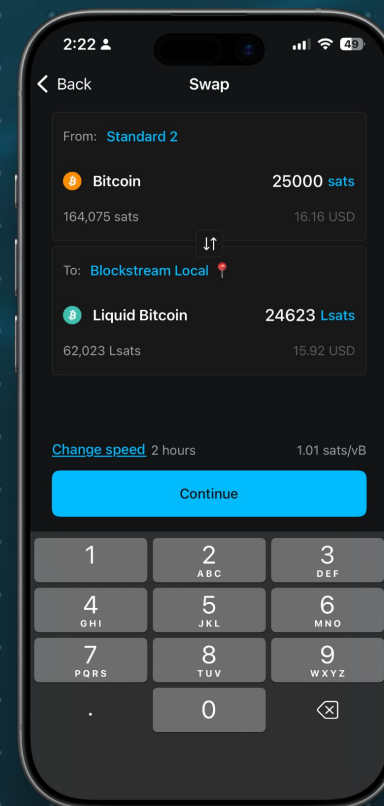
Why Swaps Exist





Swap Between **Bitcoin and Liquid**

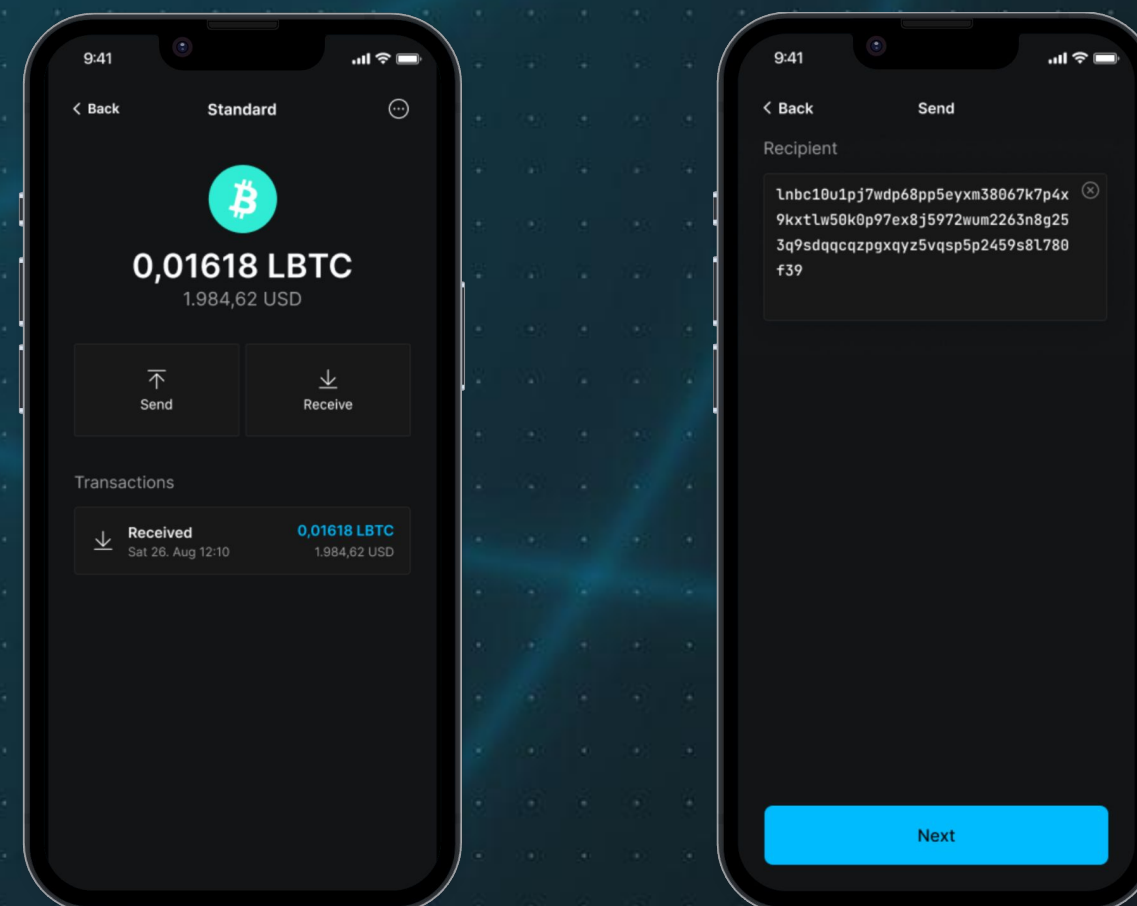
- Tap Swap, then choose from and to, for example Bitcoin to Liquid Bitcoin
- Enter the amount, check the rate, and tap Continue
- Review the details, then Slide to Send
- A trustless atomic swap: it completes in full, or your funds come back





Liquid/Lightning Sending

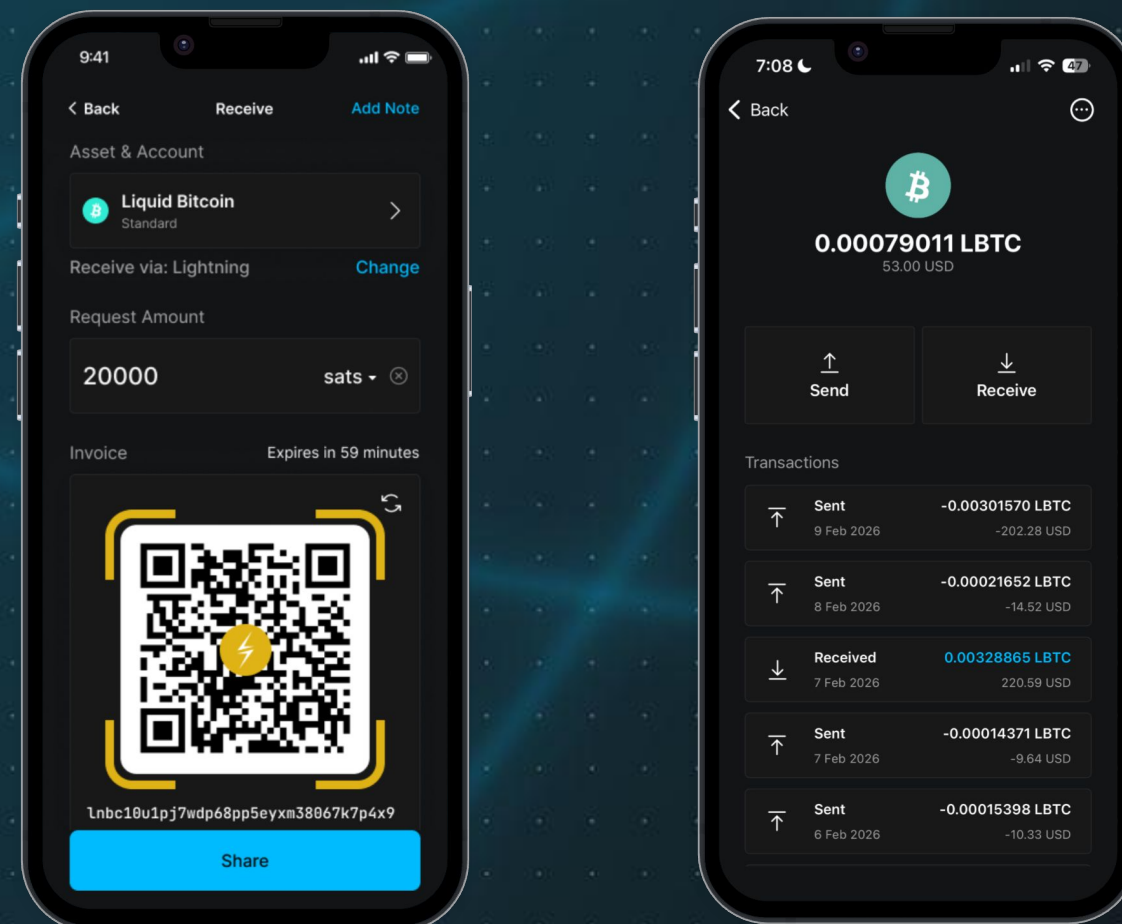
- Use L-BTC to pay Lightning invoices instantly
- Scan Lightning QR codes directly from your Liquid balance
- It runs as a single trustless atomic swap, no custodial handoff
- No exchange, no custodian
- Full self-custody maintained throughout





Lightning /Liquid Receiving

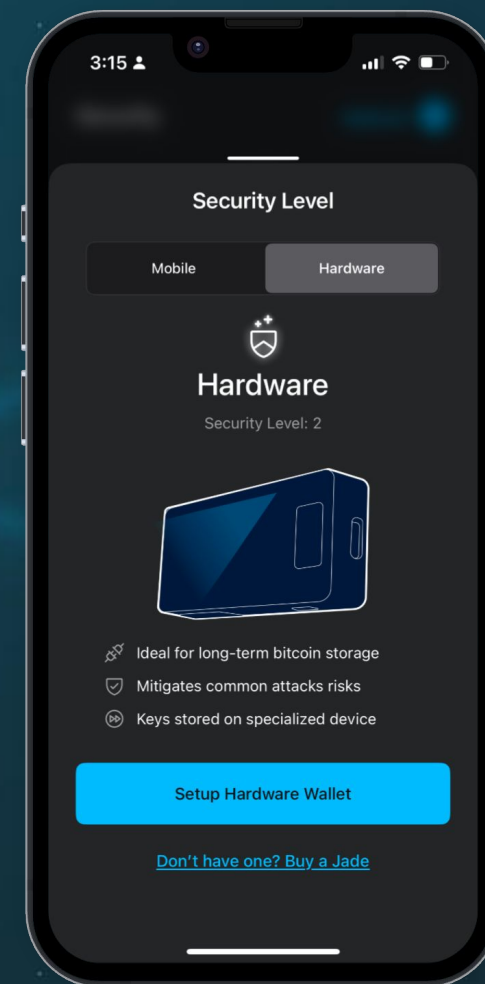
- Share a Lightning invoice
- Payment routes over Lightning
- Settlement completes on Liquid
- Transaction visible immediately in your wallet
- Seamless cross-layer flow, no custodial handoff





- For larger amounts or long-term savings, add a Blockstream Jade
- Jade keeps your keys offline and signs transactions securely
- Protects against phone hacks and malware

Level up with a **Hardware Wallet**

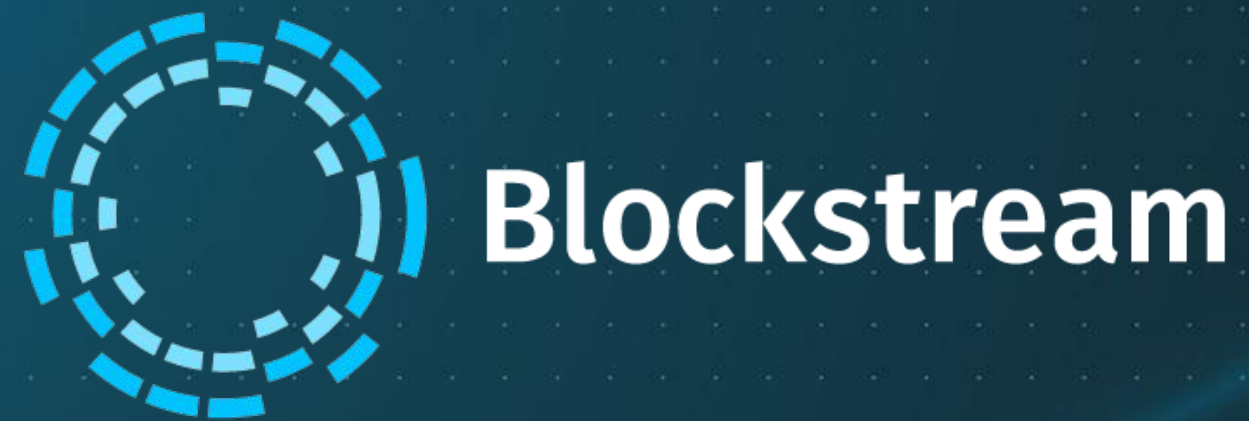




Go even further with a
Blockstream Metal

- Paper degrades. Metal lasts generations
- Store your recovery phrase on Blockstream Metal: fire, water, and tamper resistant
- Pair it with Jade for robust, long-term self-custody





The Future of Finance Runs on  *bitcoin*

 x.com/Blockstream

 linkedin.com/company/Blockstream

 blockstream.com