





Paylyms Dublin Bitcoiners Meet Up



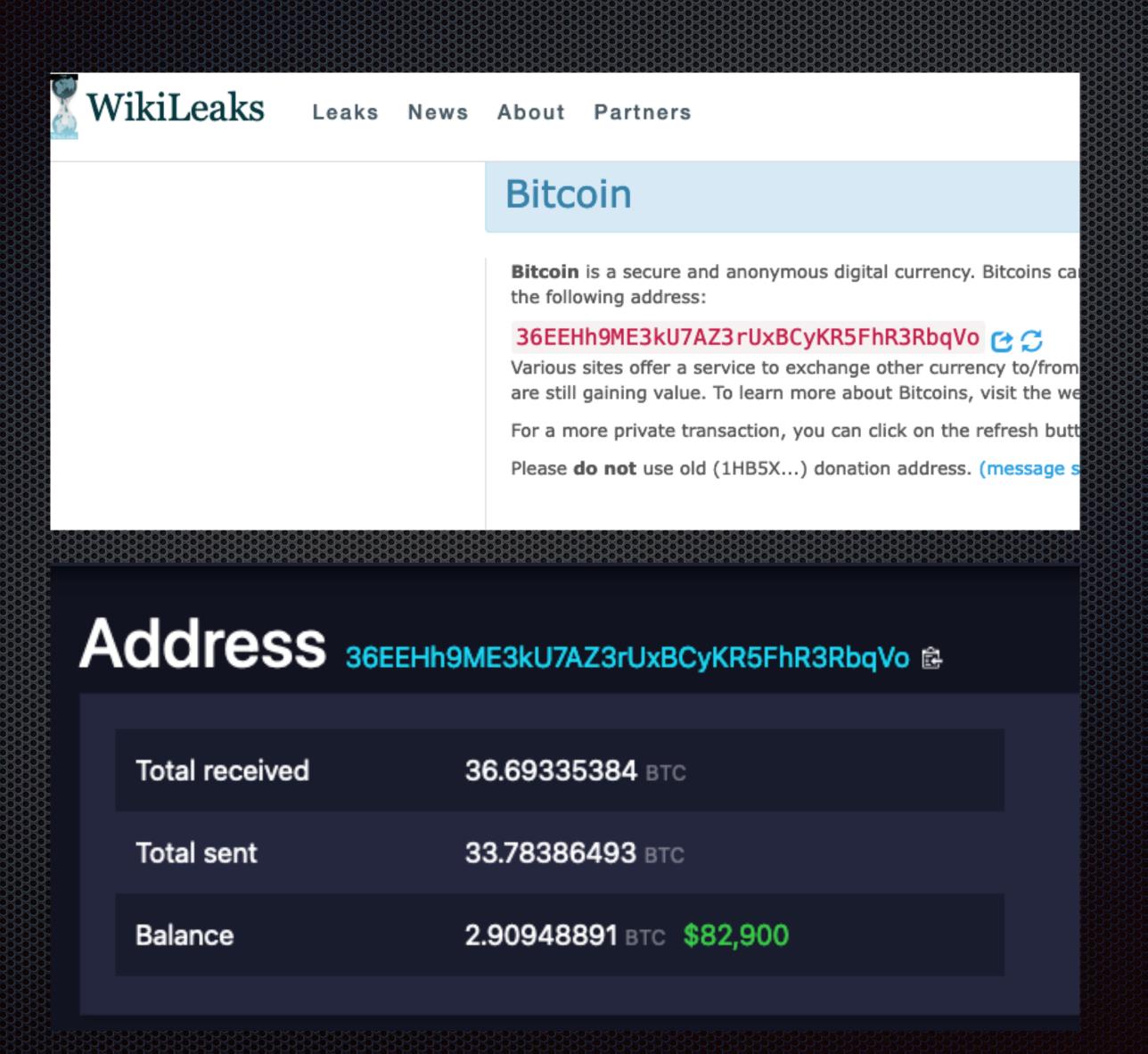


Options for receiving Bitcoin payments or donations





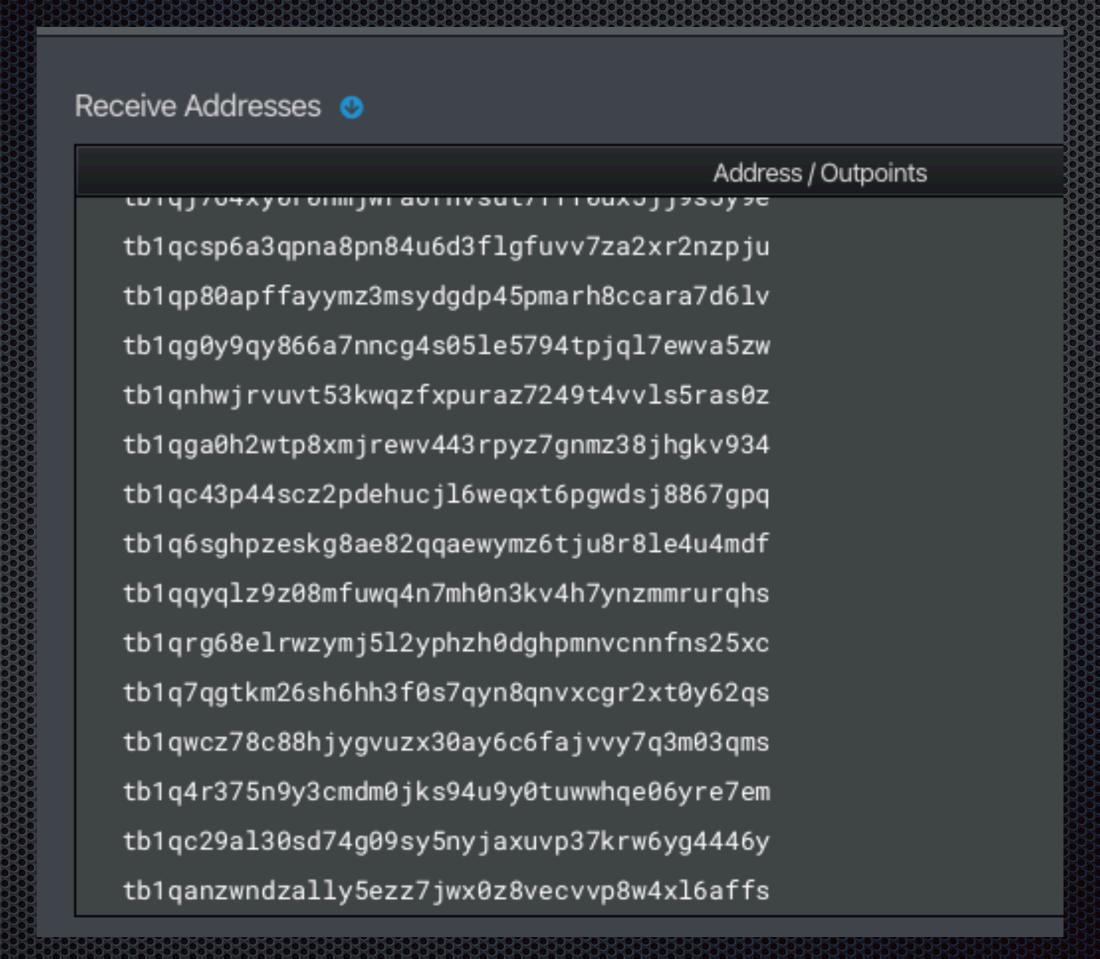
*Post a static address (which is terrible for privacy).







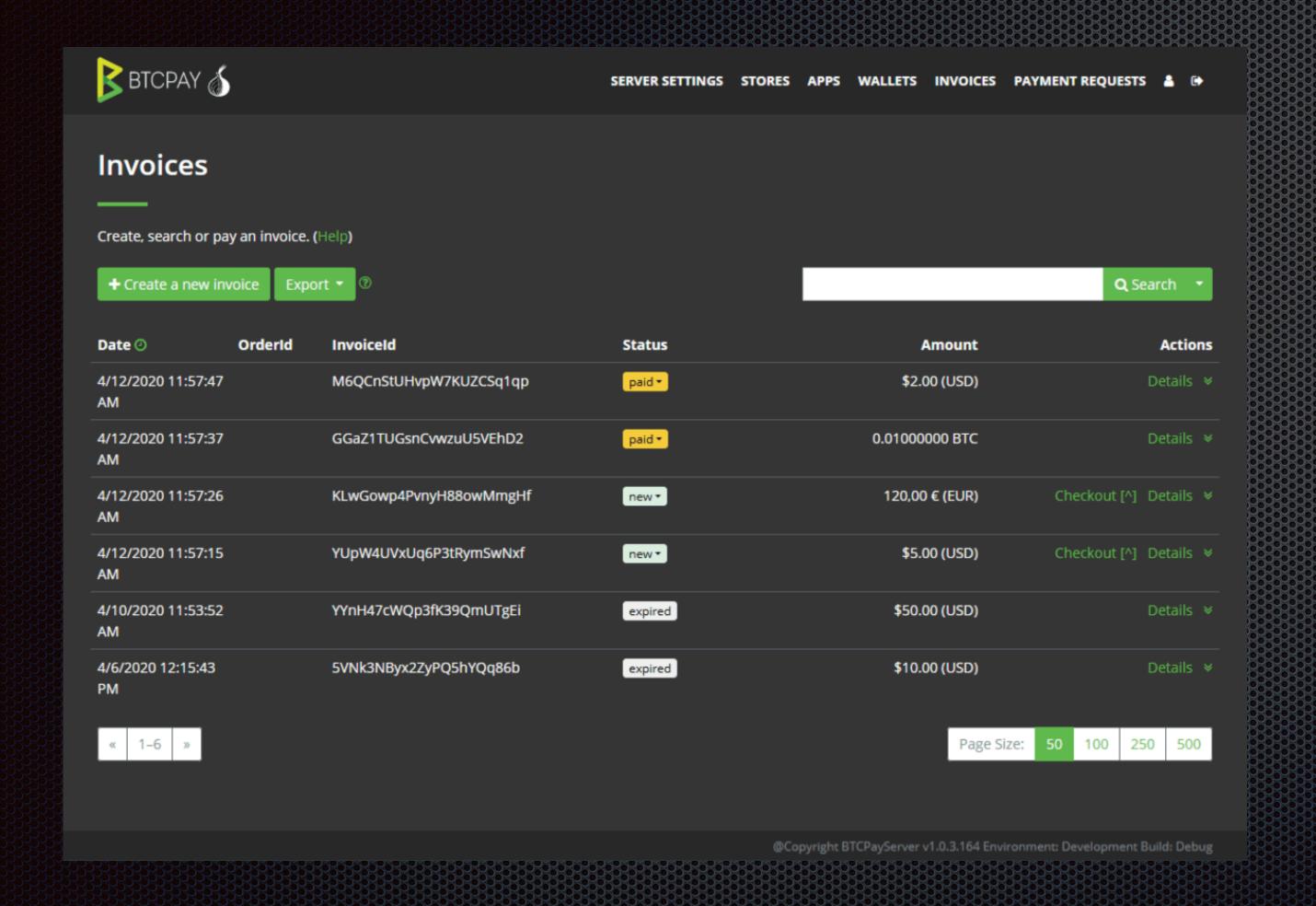
■Manually generate a new address for each transaction (not scalable).







Running a BTCPay server or zaprite



Obitcoin	
Extended Public Key	
Add a label for this wallet and paste in your Extended Public Key (xpub/ypub/zpub)	
below, then select your wallet's address type	2.
WALLET DETAILS	
Label *	
Wasabi Wallet #1	
Extended Public Key *	
xpub6CgGnxiDWCP6V6zXR3UCTCK6zMTHTST	Tics33XKaJjC4zwj3ztccALWLz8y2PHNPfF
WALLET VALIDATION	
Generate a receive address in your wallet an	d confirm the last 6 characters below.
Confirm Address *	Learn more ②
bc1qyl h3u67j673h6y6alv70m0pl2yz53t	tzh vxgg7u
✓ Valid address	Change address type
O Drivery	
Privacy We recommend creating a new wallet spec	cifically for use on Zaprite. Read our article
below for an example Wasabi Wallet conne	
How to Connect a Wasabi Wallet xPub to Z	aprite [7]

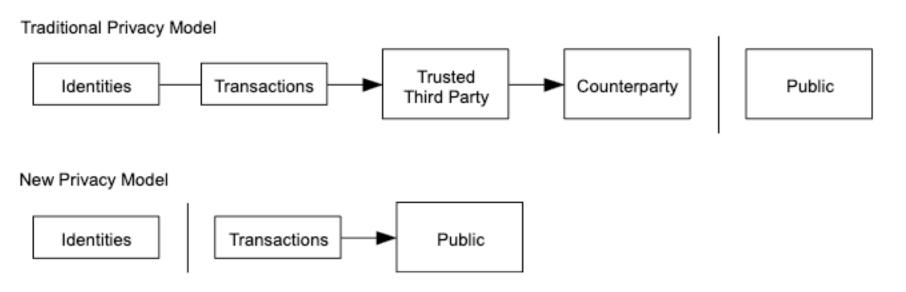




■This concern regarding the reissuing of addresses was already addressed in the 2008 whitepaper.

10. Privacy

The traditional banking model achieves a level of privacy by limiting access to information to the parties involved and the trusted third party. The necessity to announce all transactions publicly precludes this method, but privacy can still be maintained by breaking the flow of information in another place: by keeping public keys anonymous. The public can see that someone is sending an amount to someone else, but without information linking the transaction to anyone. This is similar to the level of information released by stock exchanges, where the time and size of individual trades, the "tape", is made public, but without telling who the parties were.



As an additional firewall, a new key pair should be used for each transaction to keep them from being linked to a common owner. Some linking is still unavoidable with multi-input transactions, which necessarily reveal that their inputs were owned by the same owner. The risk is that if the owner of a key is revealed, linking could reveal other transactions that belonged to the same owner.





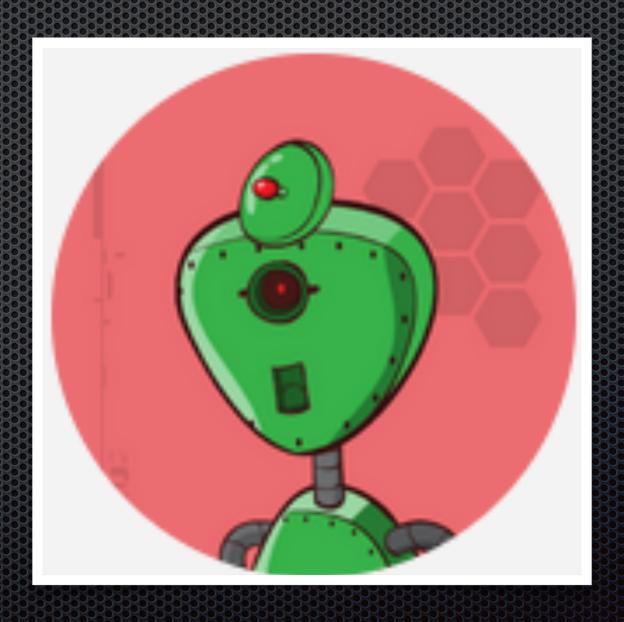
What are Paylyms?



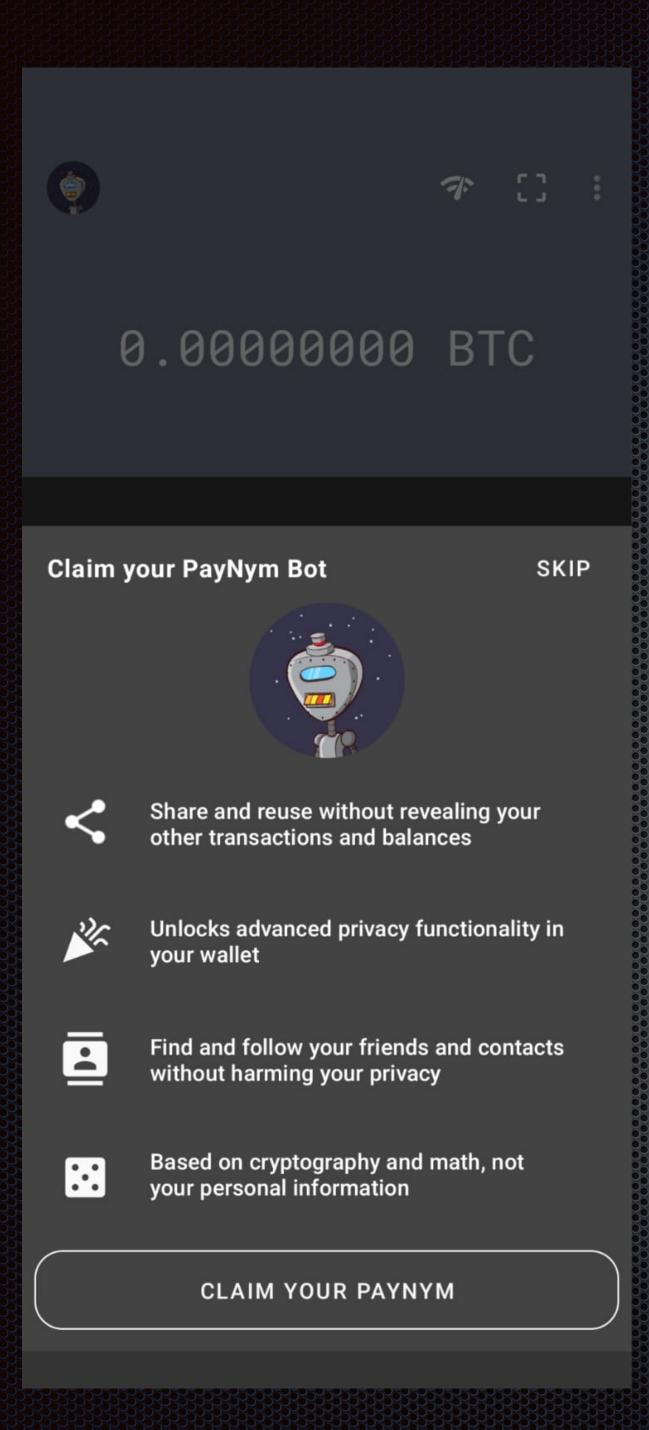




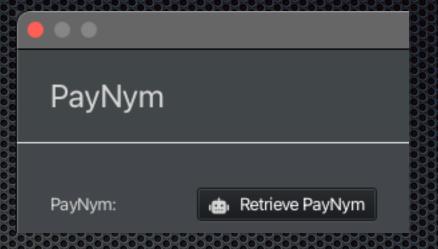
- "'PayNym' is the Samourai Wallet implementation of BIP47: 'Reusable Payment Codes'.
- ■A publicly shareable ID, derived from your private key.
- Anyone else using a BIP47 compatible wallet can combine their own unique code with yours to generate bitcoin addresses for the two of you to transact.

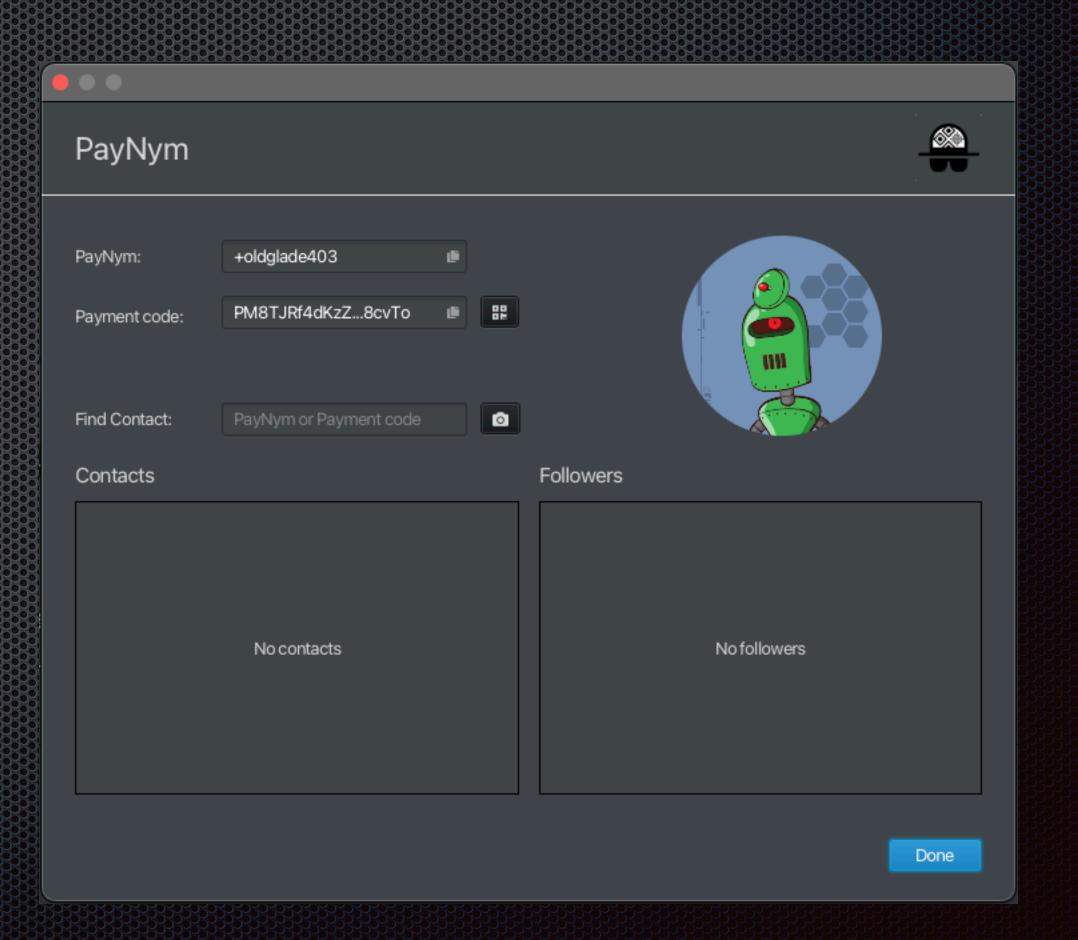
















- PayNyms provide a secure and private way to send and receive bitcoin using BIP47 Reusable Payment Codes.
- PayNyms allow you to add friends to your wallet contact list without revealing your balance or transaction history, for secure sending and receiving.





How do PayNym's work?

https://github.com/bitcoin/bips/blob/ uster/ n-00 meulawiki#protocol

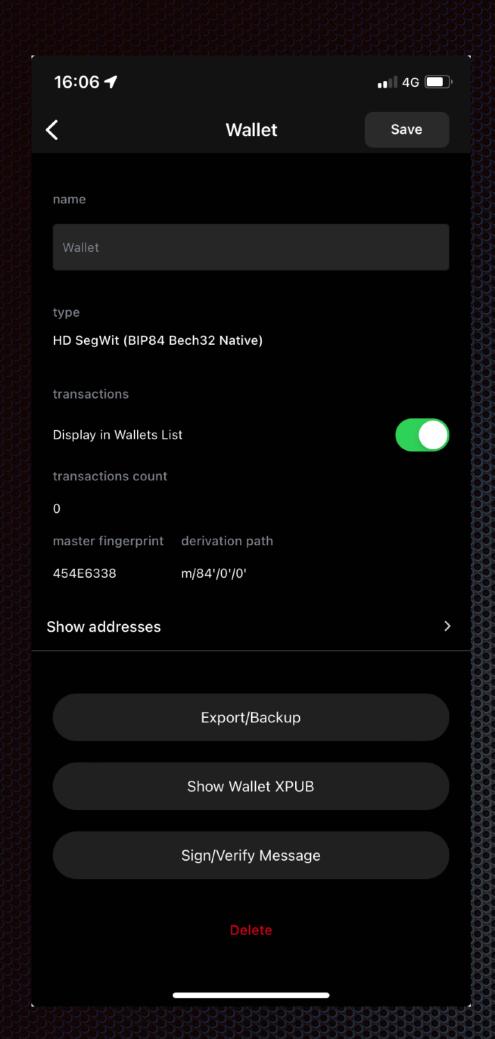


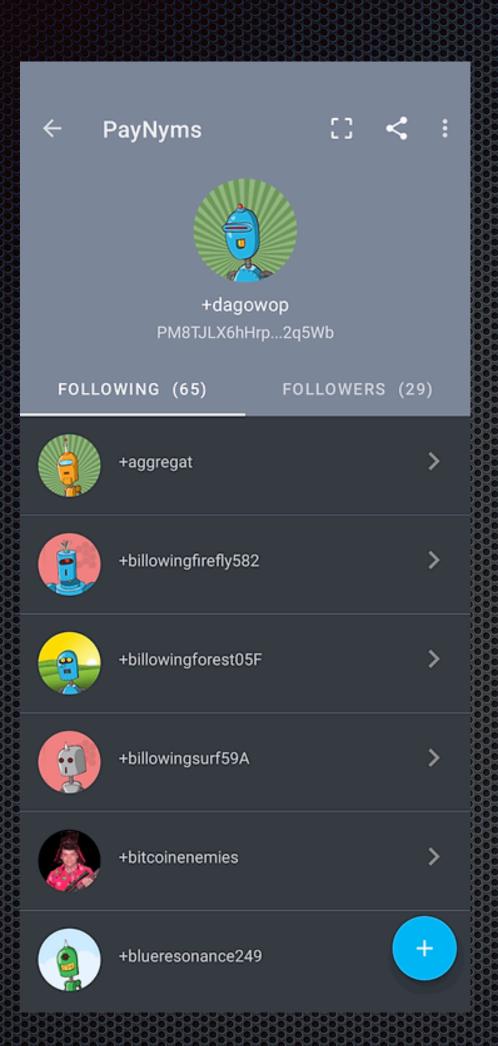


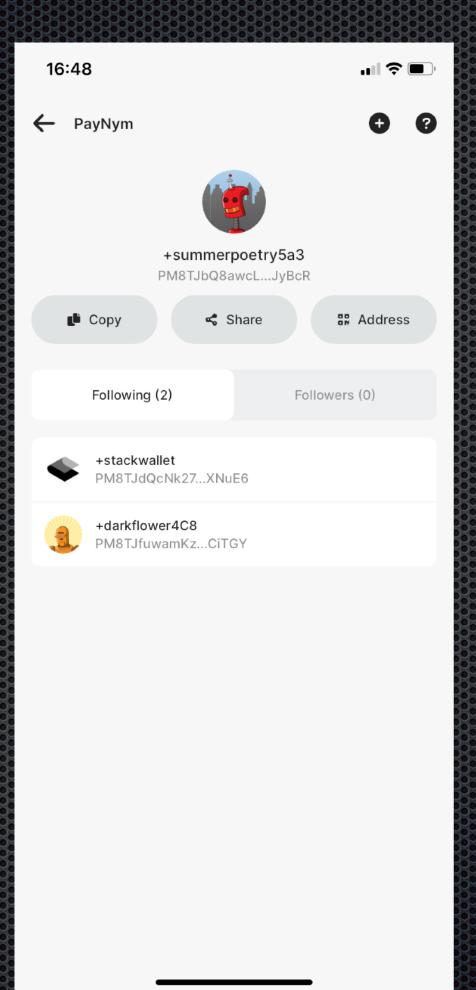
- The wallet needs your private keys to derive addresses for connected PayNyms.
- Currently, this functionality is only available in Samourai, Sparrow Wallet, Bluewallet, and Stack Wallet.
- Samourai manages Paynym directory and provides Custom PayNyms at its discretion.
- The only other alternative to BIP 47 is "silent payments", but no wallet has implemented them yet.

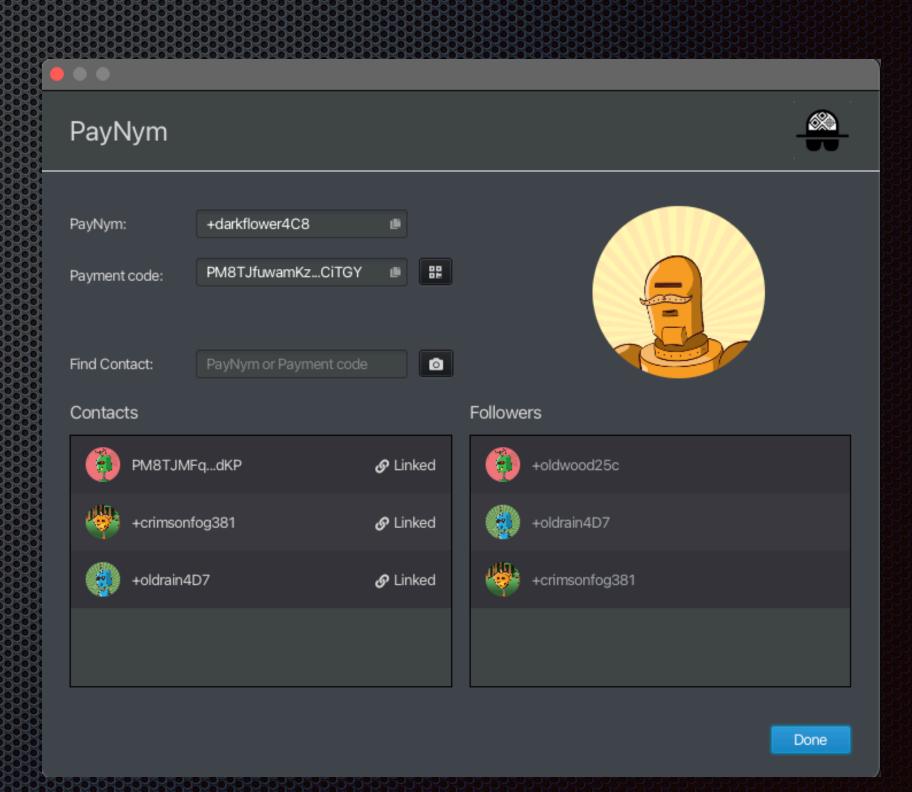












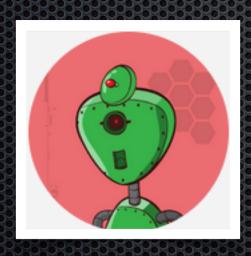




Payment code or PayNym?

- The 'PayNym' ID you see within is simply a visual layer built on top to improve user experience and is not integral to the underlying operation of the BIP.
- Here is my payment code:
 - PM8TJf24x11fQXTBXGHvYSQjs9bPsNcnfKkXKdsdWNiaGGcomo4kaq5TGpuBpHw294Ang wnFsKqT9dWeVuCukJgeqiDpr8f9egaiUsa1f78e8smTKmCV



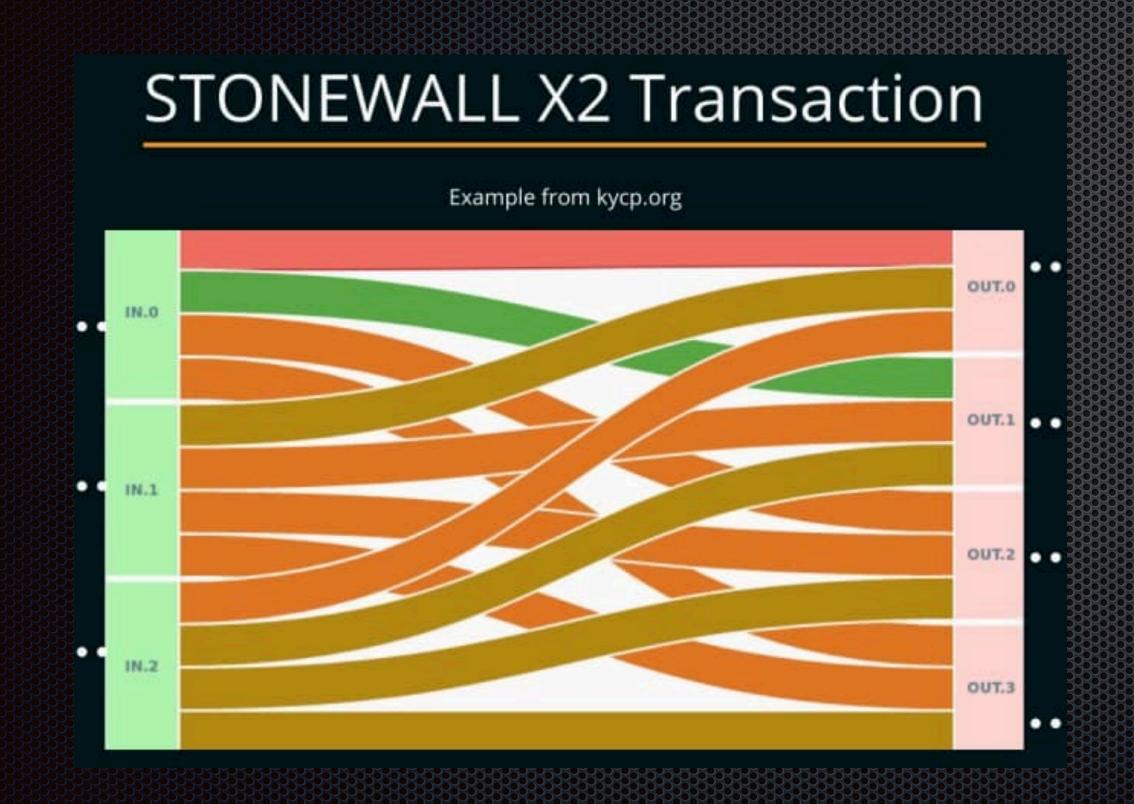


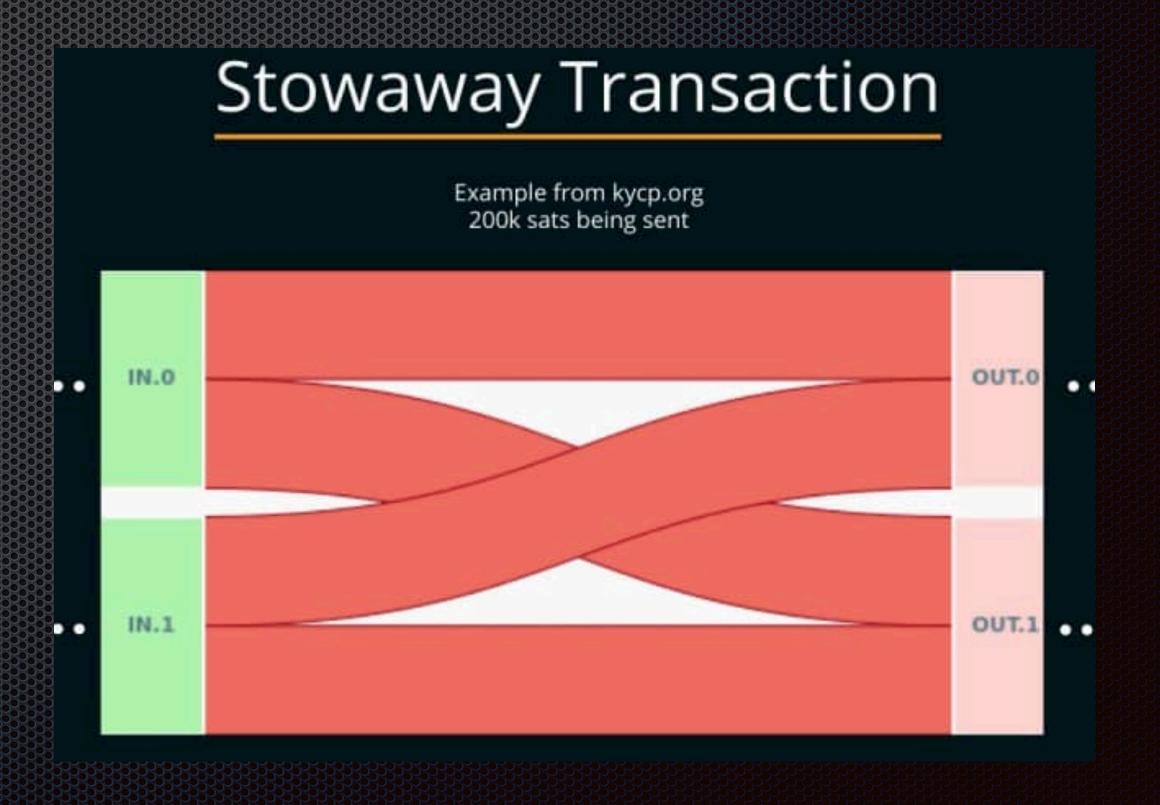




Collaborative Payments (Following)

This free option, built by the Samourai team, allows you and any other PayNym you follow to collaborate using Cahoots (Stowaway, Stonewall x2).



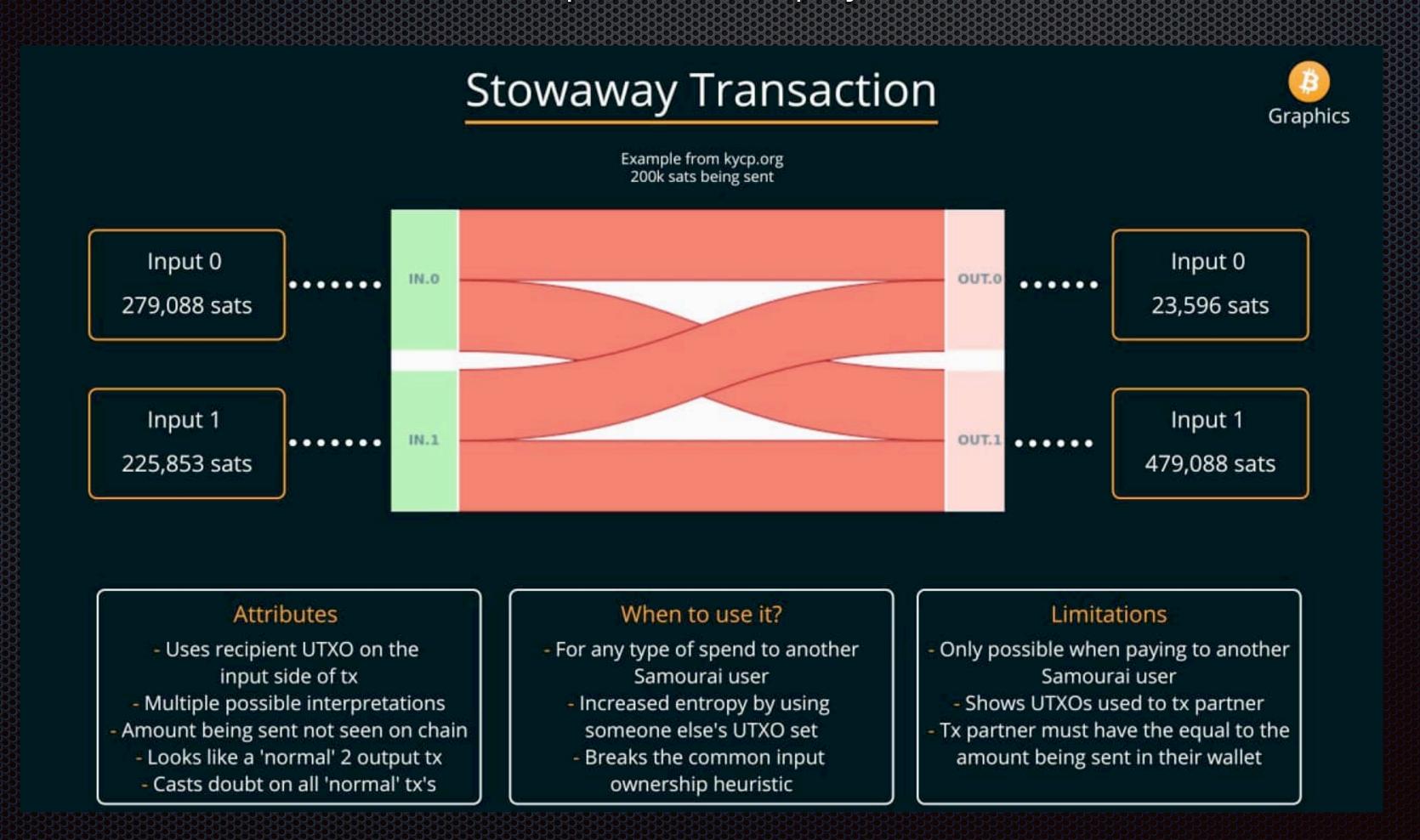






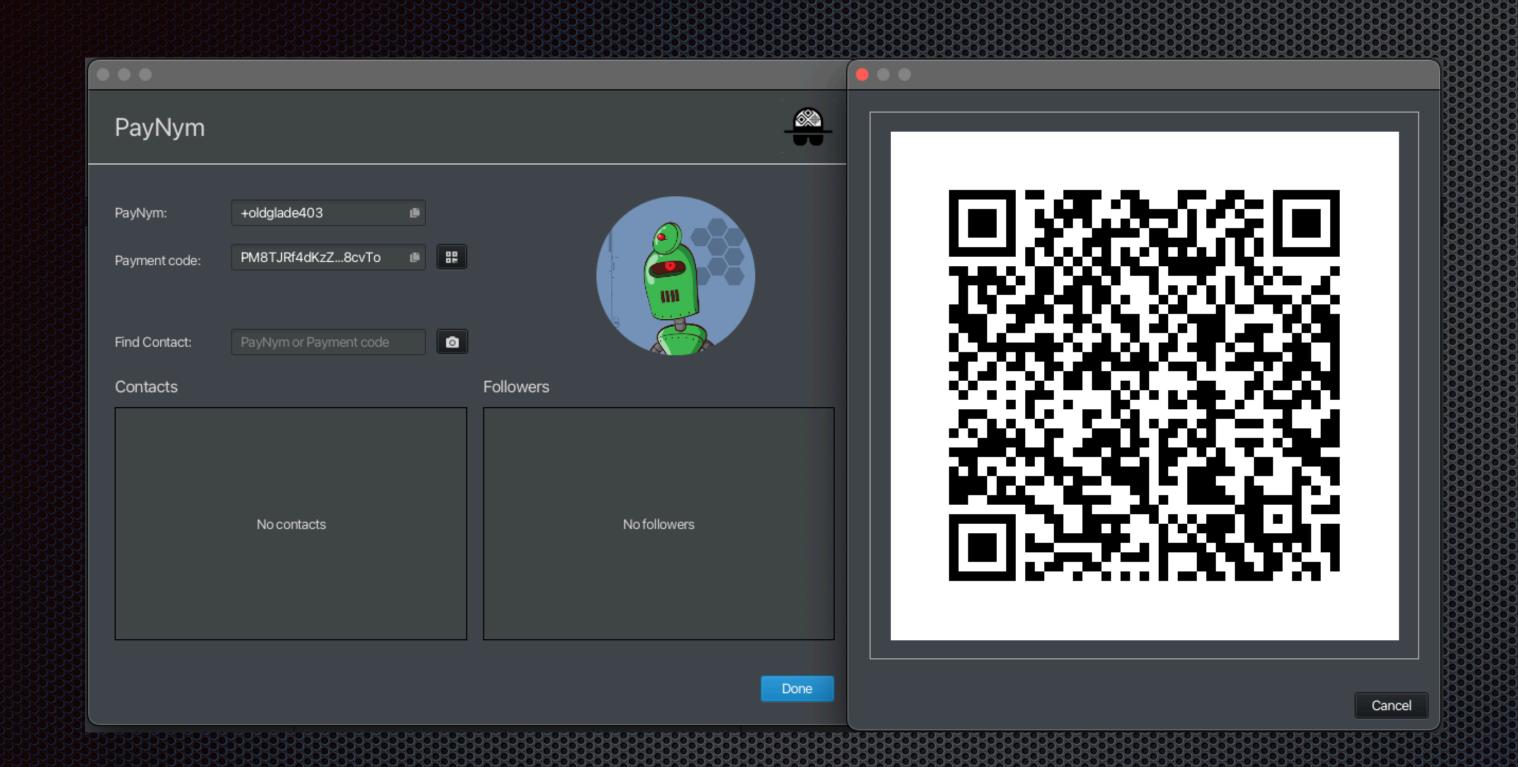
Stowaway

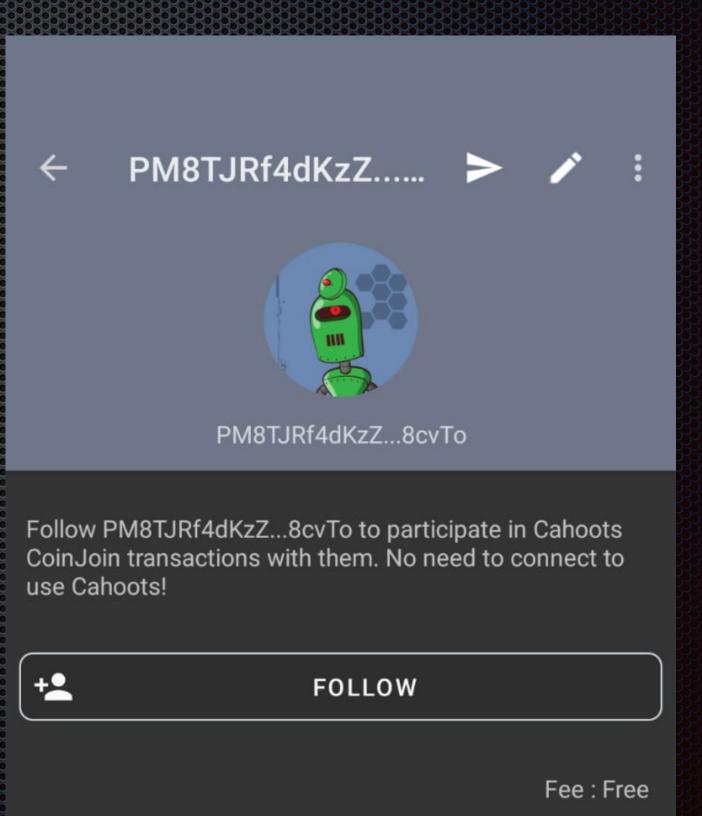
A 2-Person CoinJoin that simulates a "simple" bitcoin payment





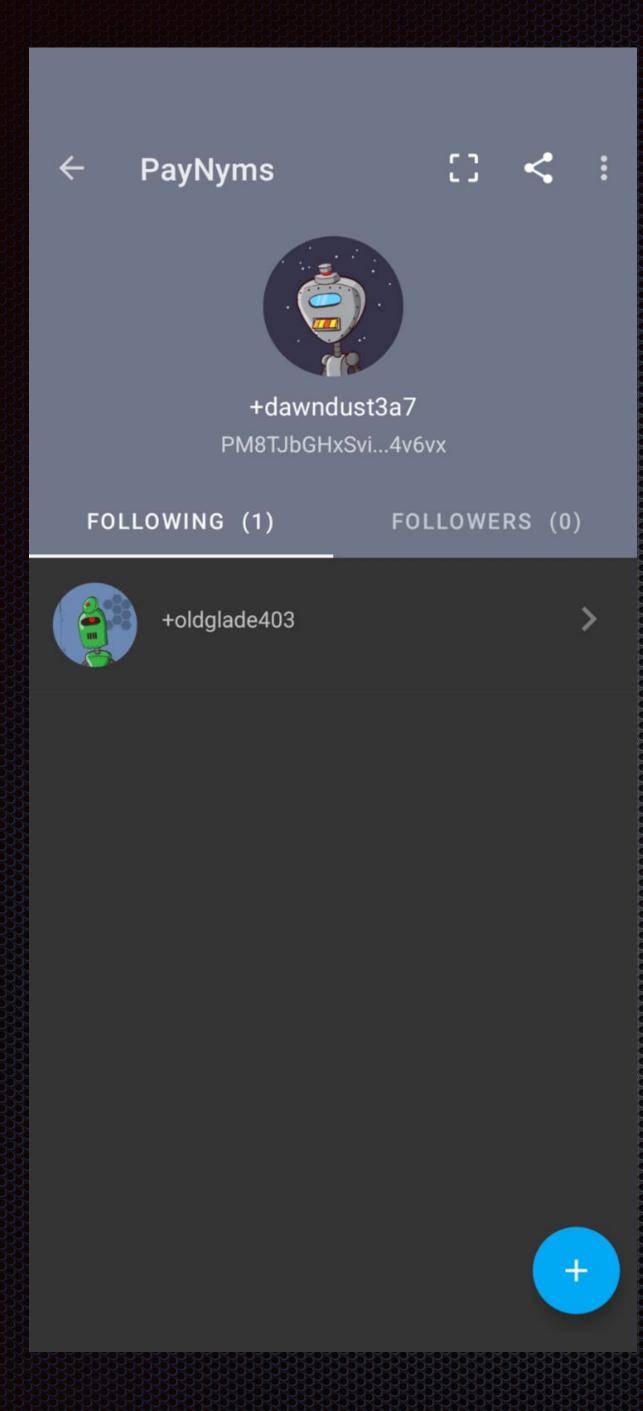




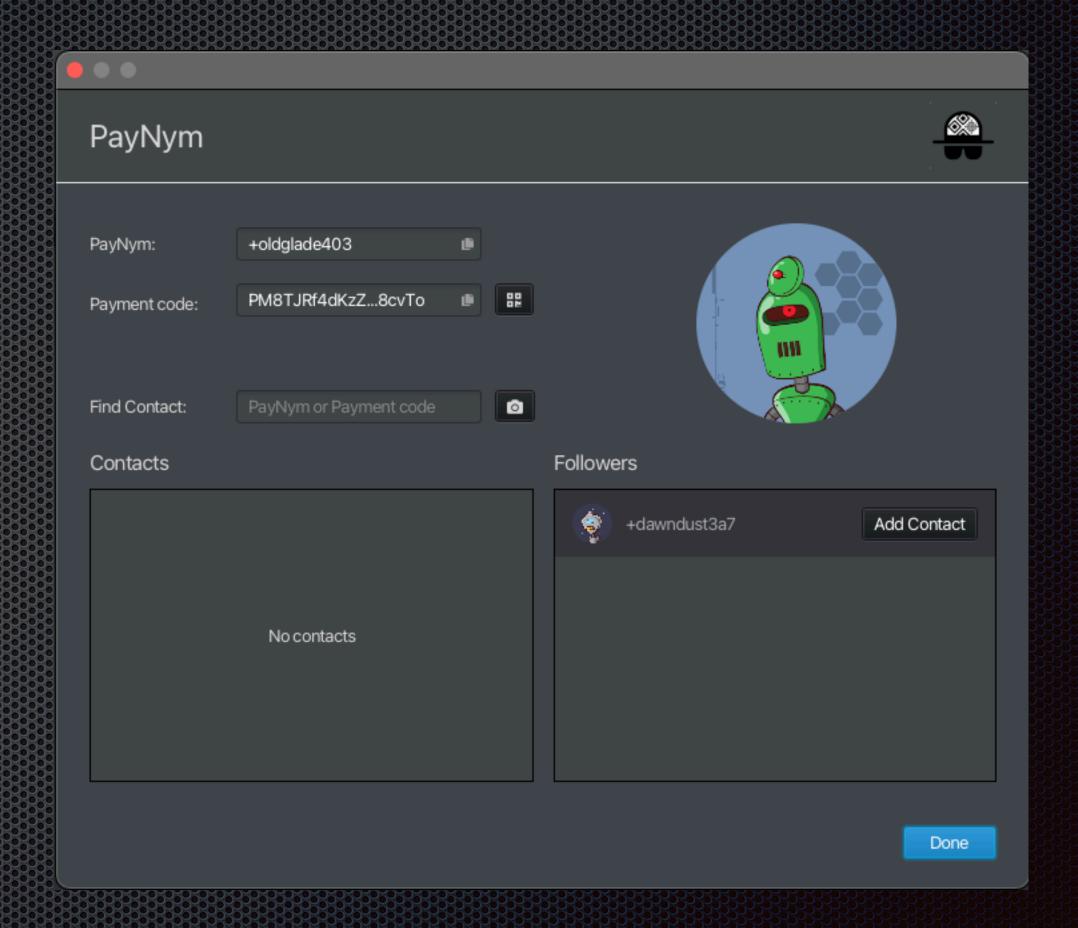


History

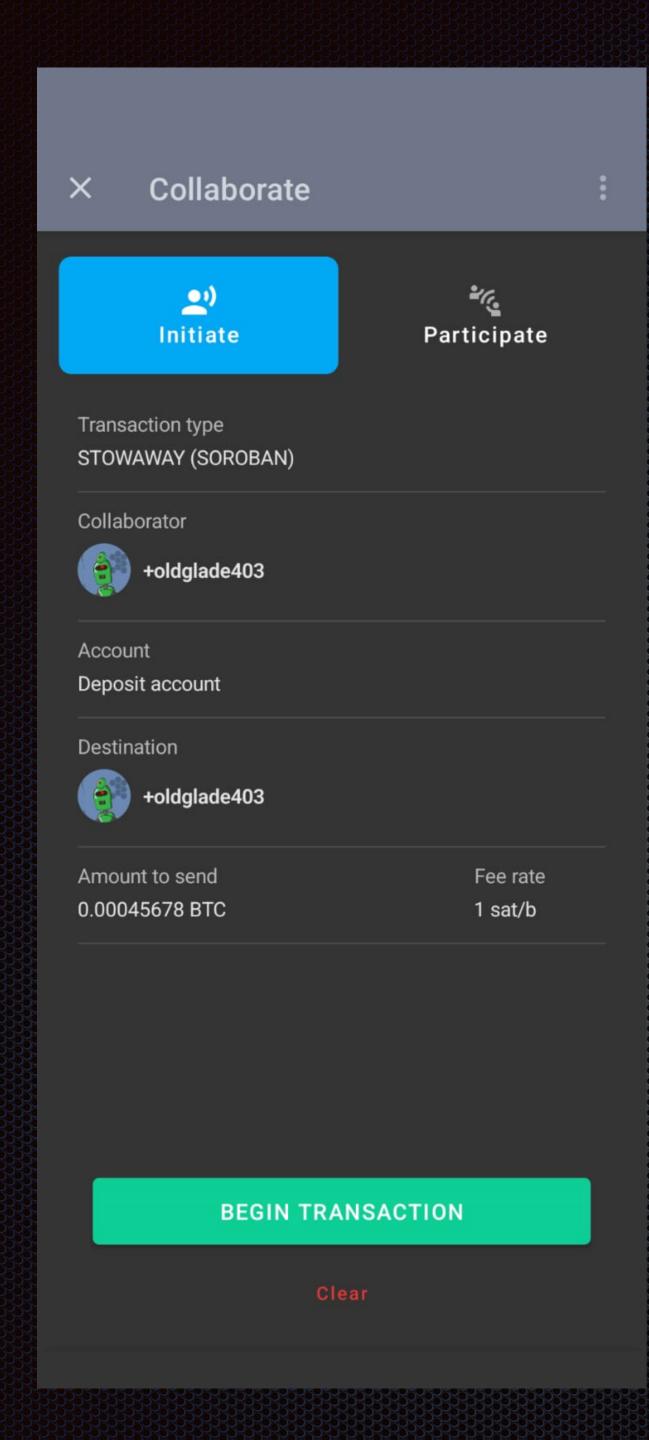


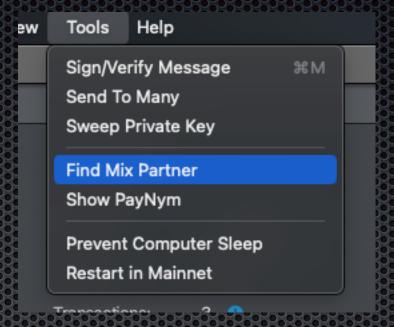


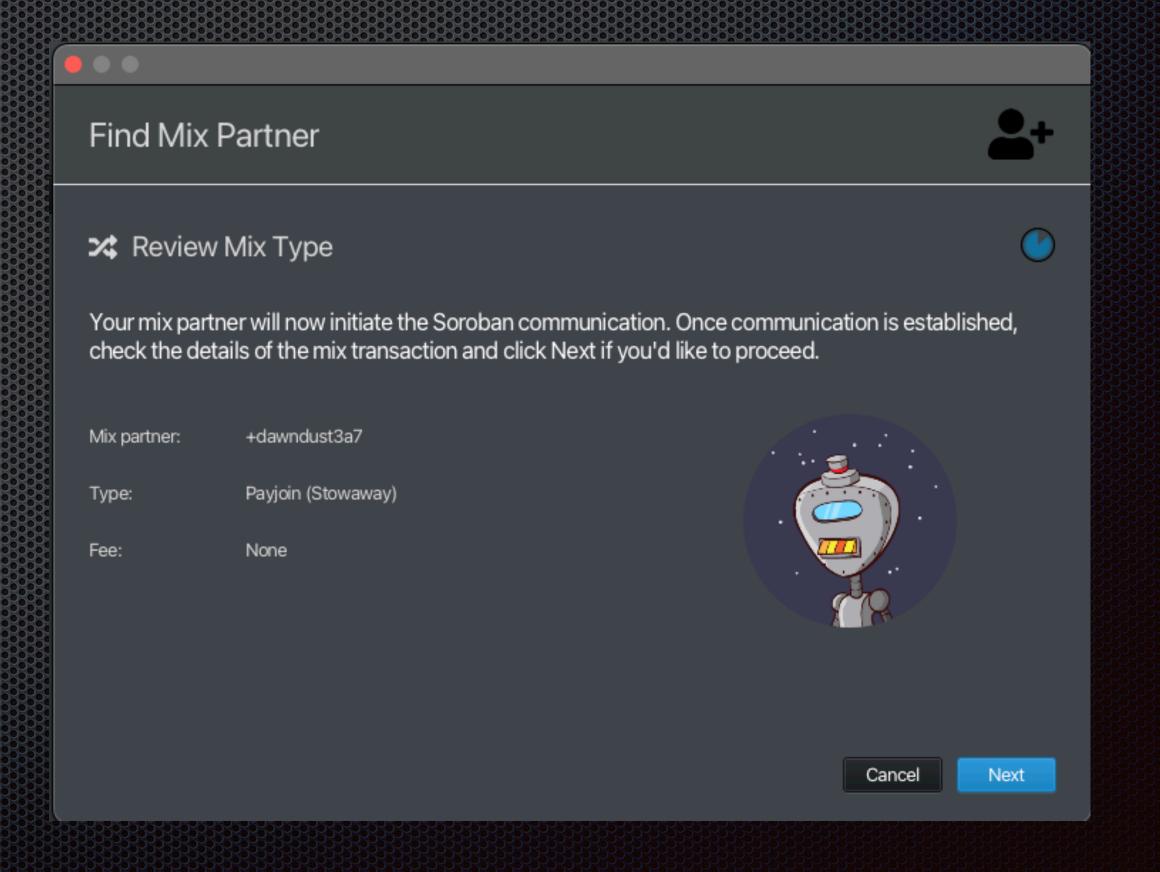




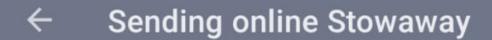














Step 5

Confirm that you wish to broadcast this transaction.

То	tb1qt3c3uumtjt6cv9ysvafe3633dlnhhaz0nytwm8	
Amou	nt	0.00045678 BTC 45678 sat
Miner	Fee	0.00000216 BTC 216 sat



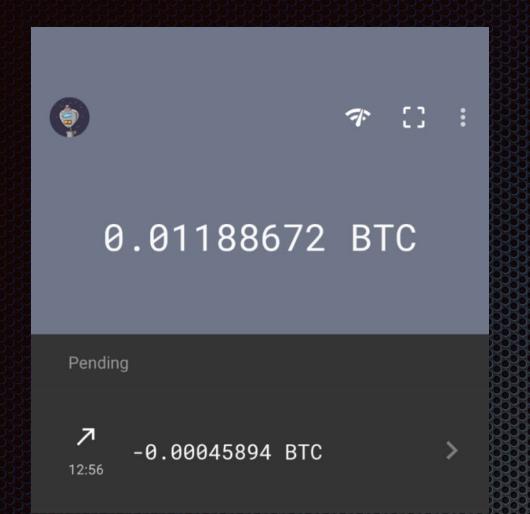
Send 0.00045894 BTC

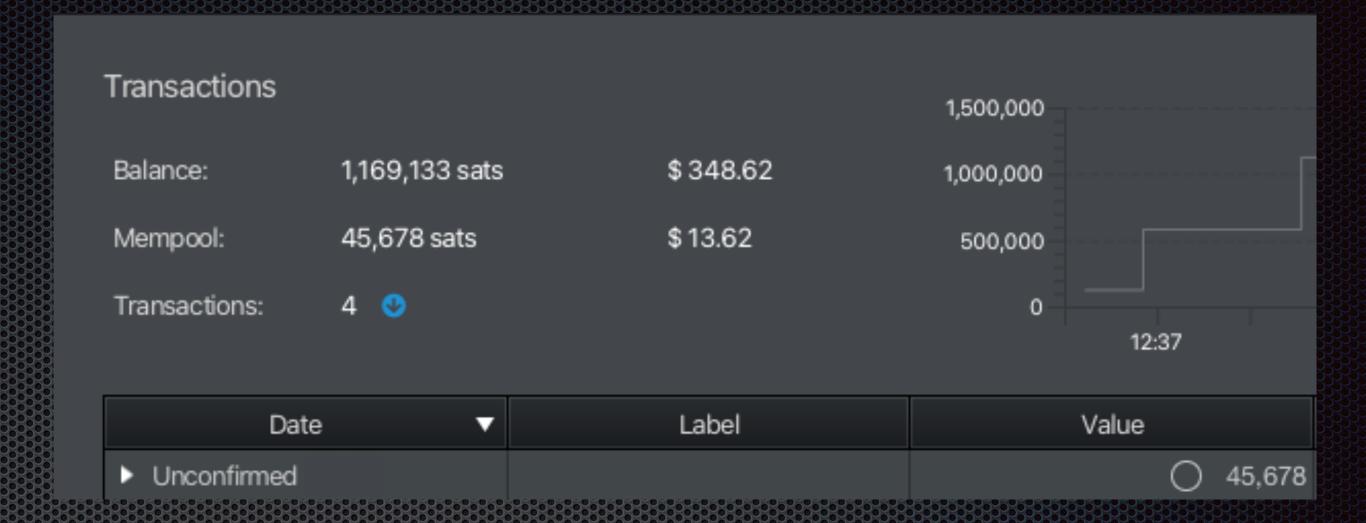












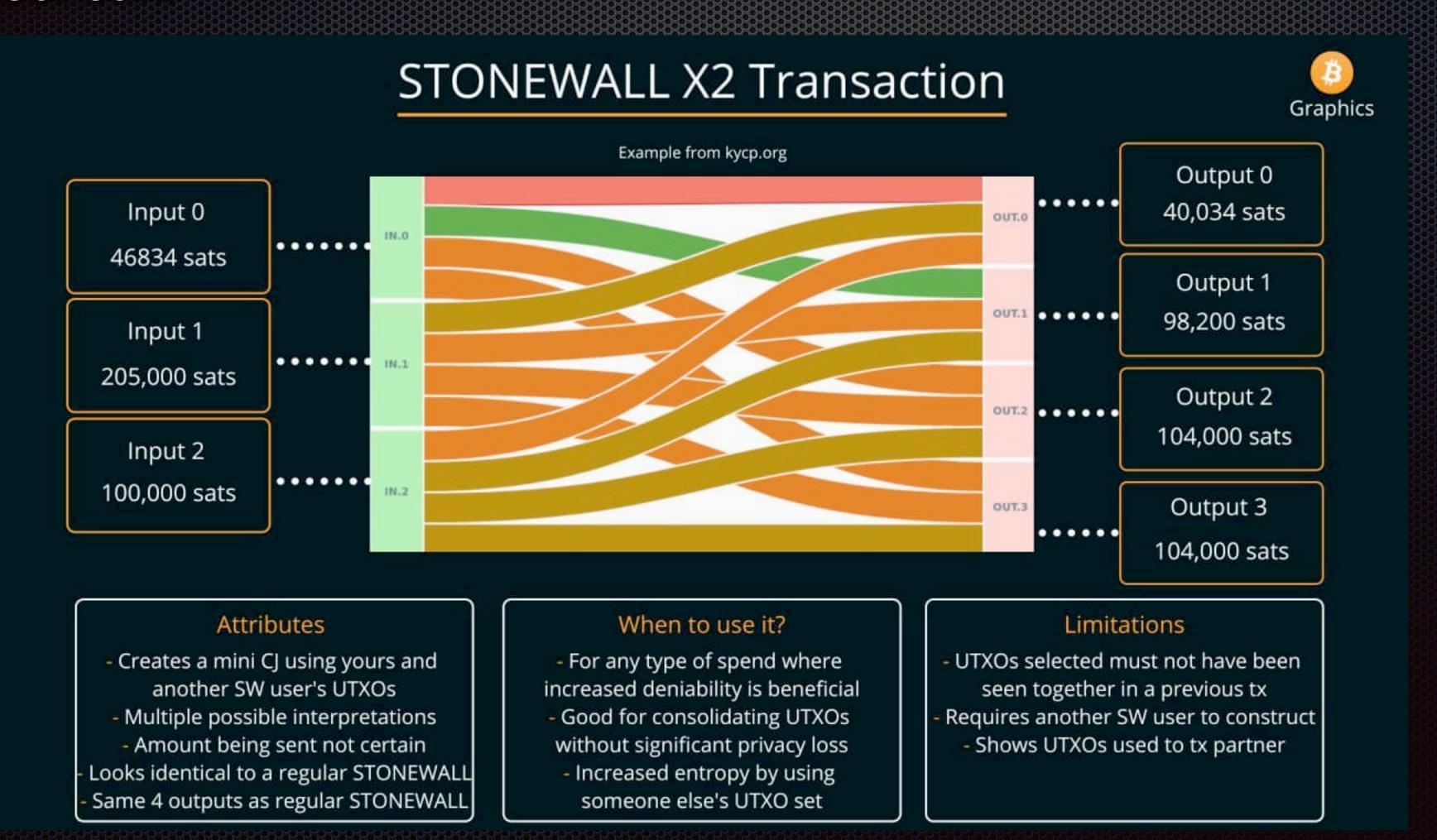




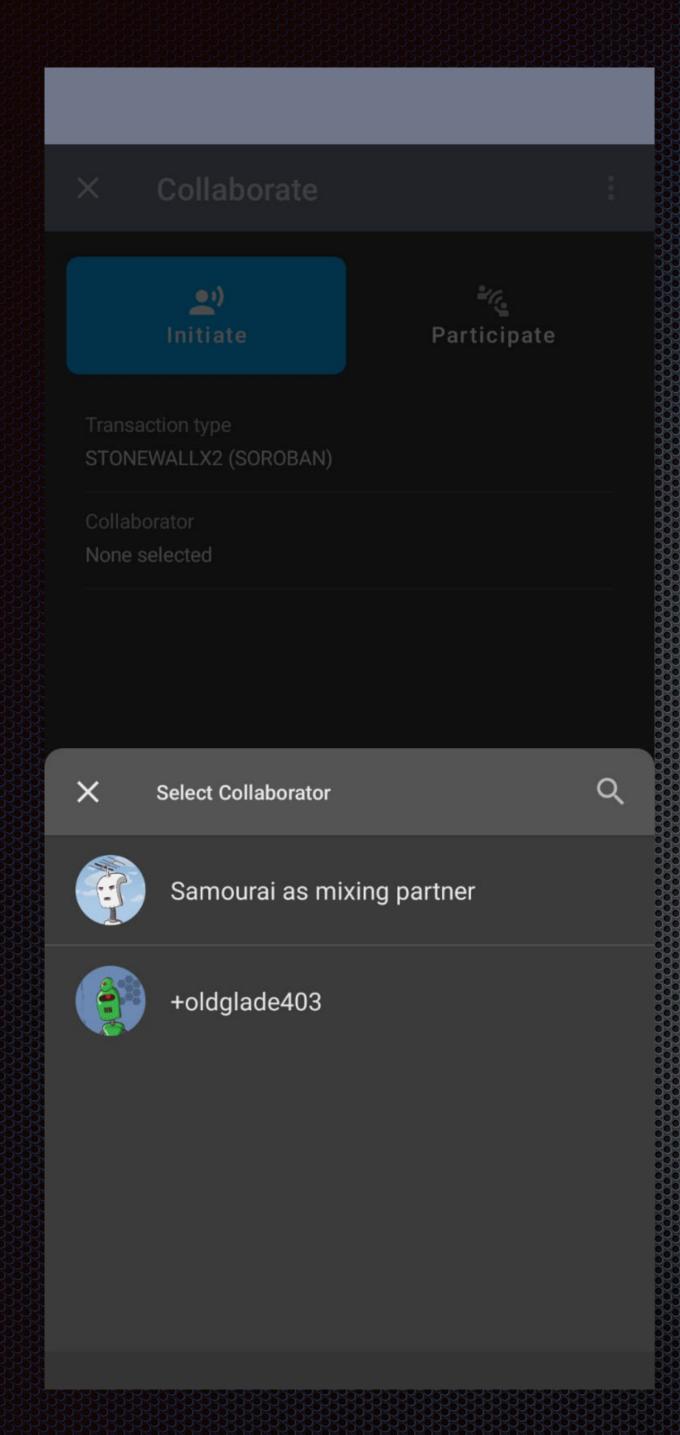


Stonenewallx2

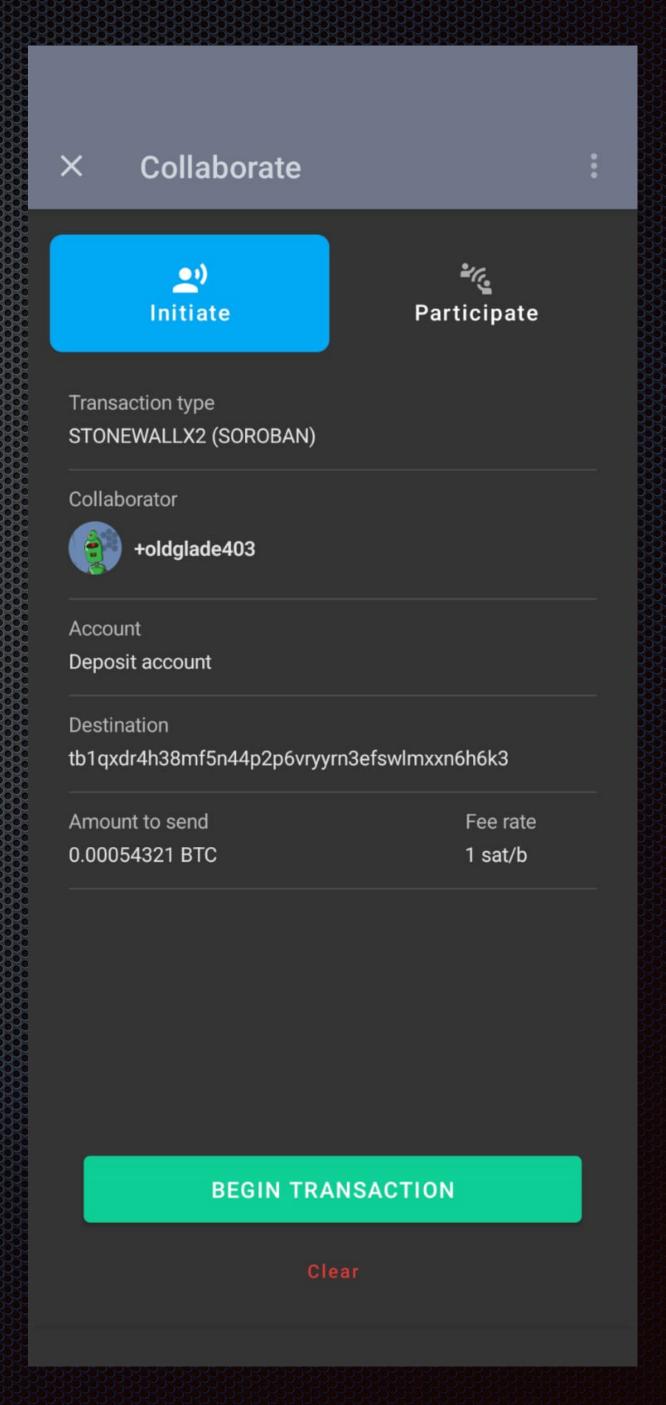
A 2-Person CoinJoin.













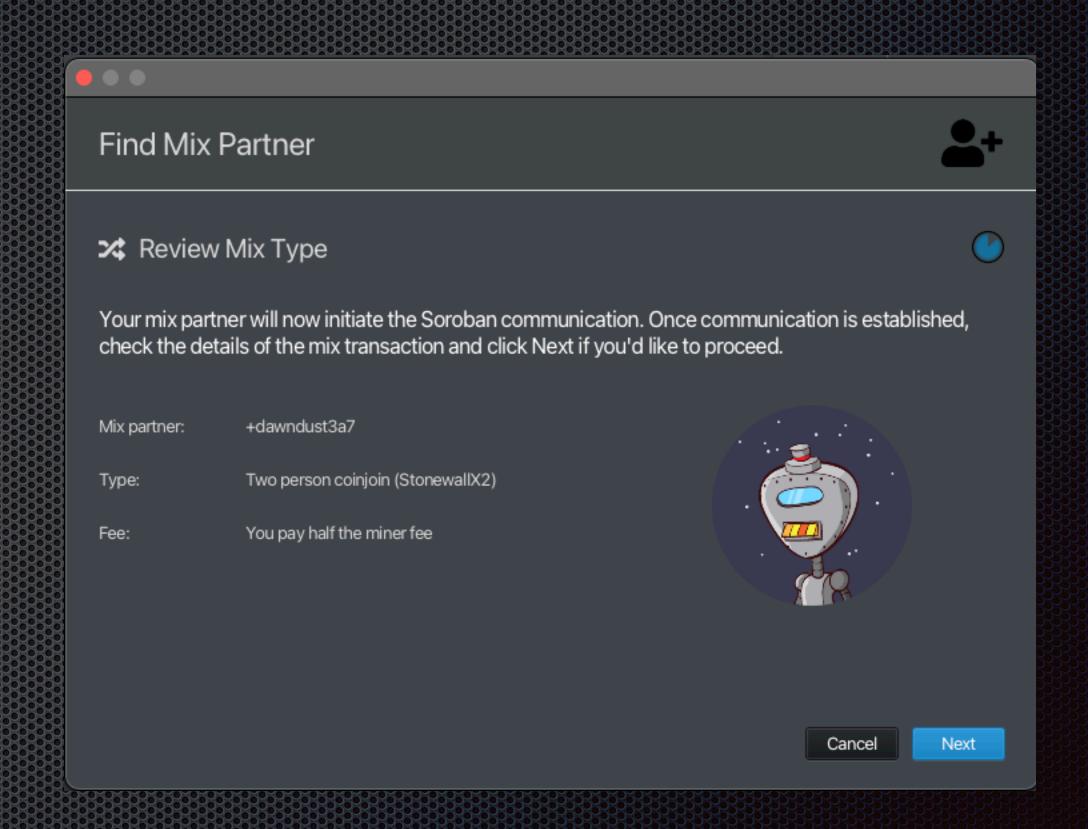
← Sending online StonewallX2



Step 1

Have your mixing partner receive online Cahoots.











Step 5

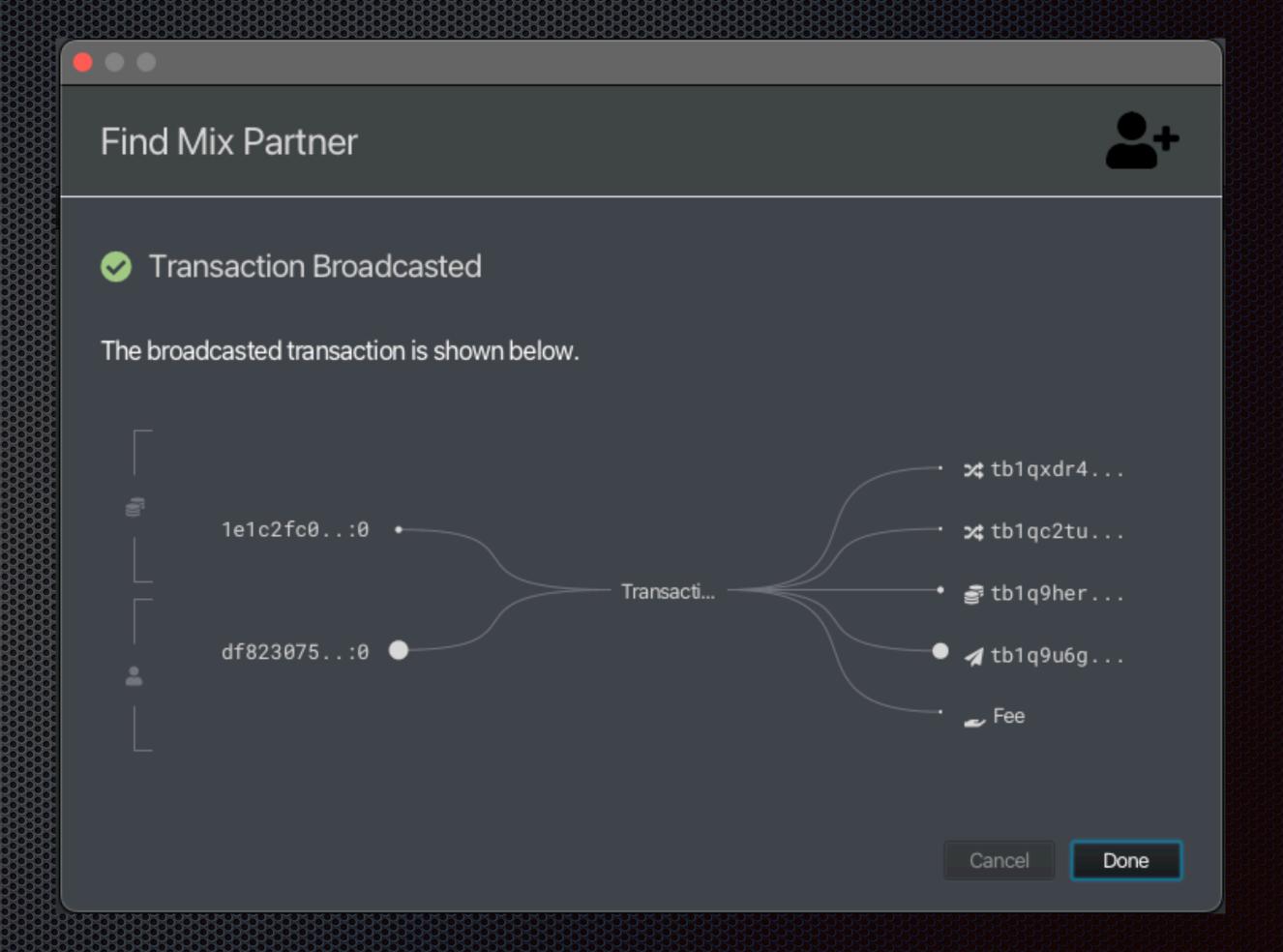
Confirm that you wish to broadcast this transaction.

To tb1qxdr4h38mf5n44p2p6vryyrn3efswlmxxn6h6k3	
Amount	0.00054321 BTC 54321 sat
Miner Fee	0.00000284 BTC 284 sat
Estimated Entropy	1.58 bits

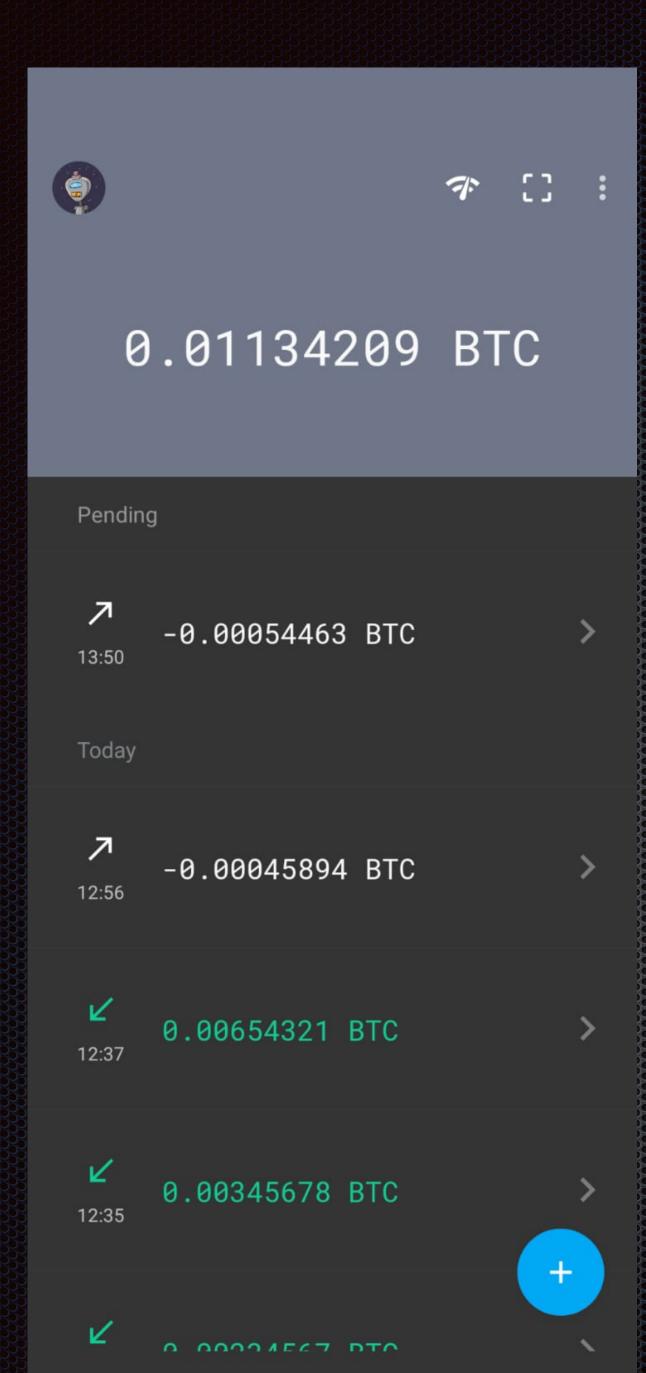


Send 0.00054605 BTC

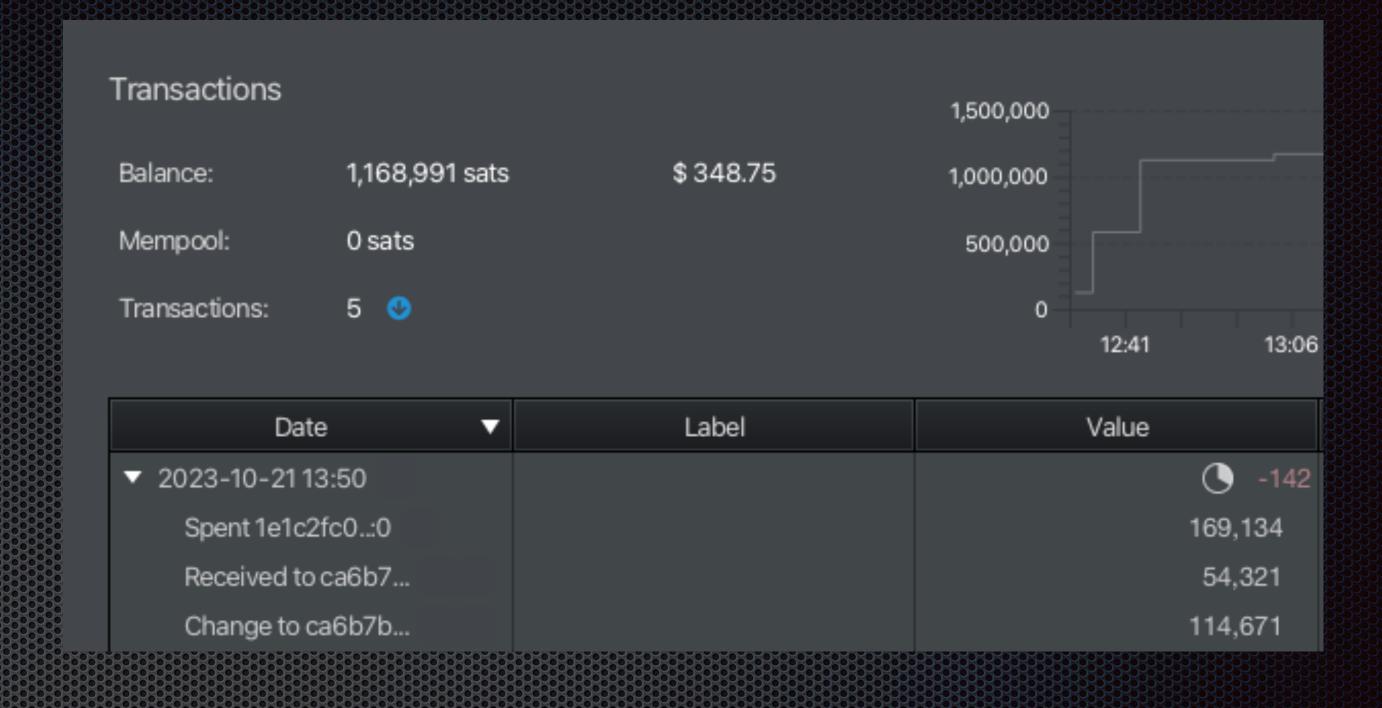


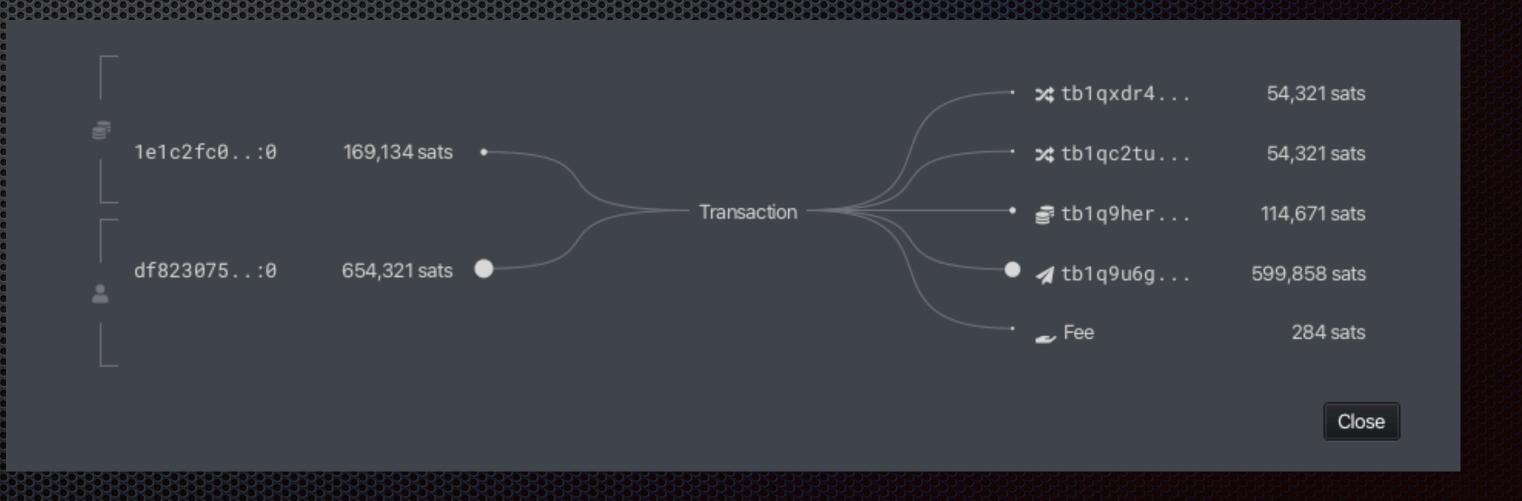




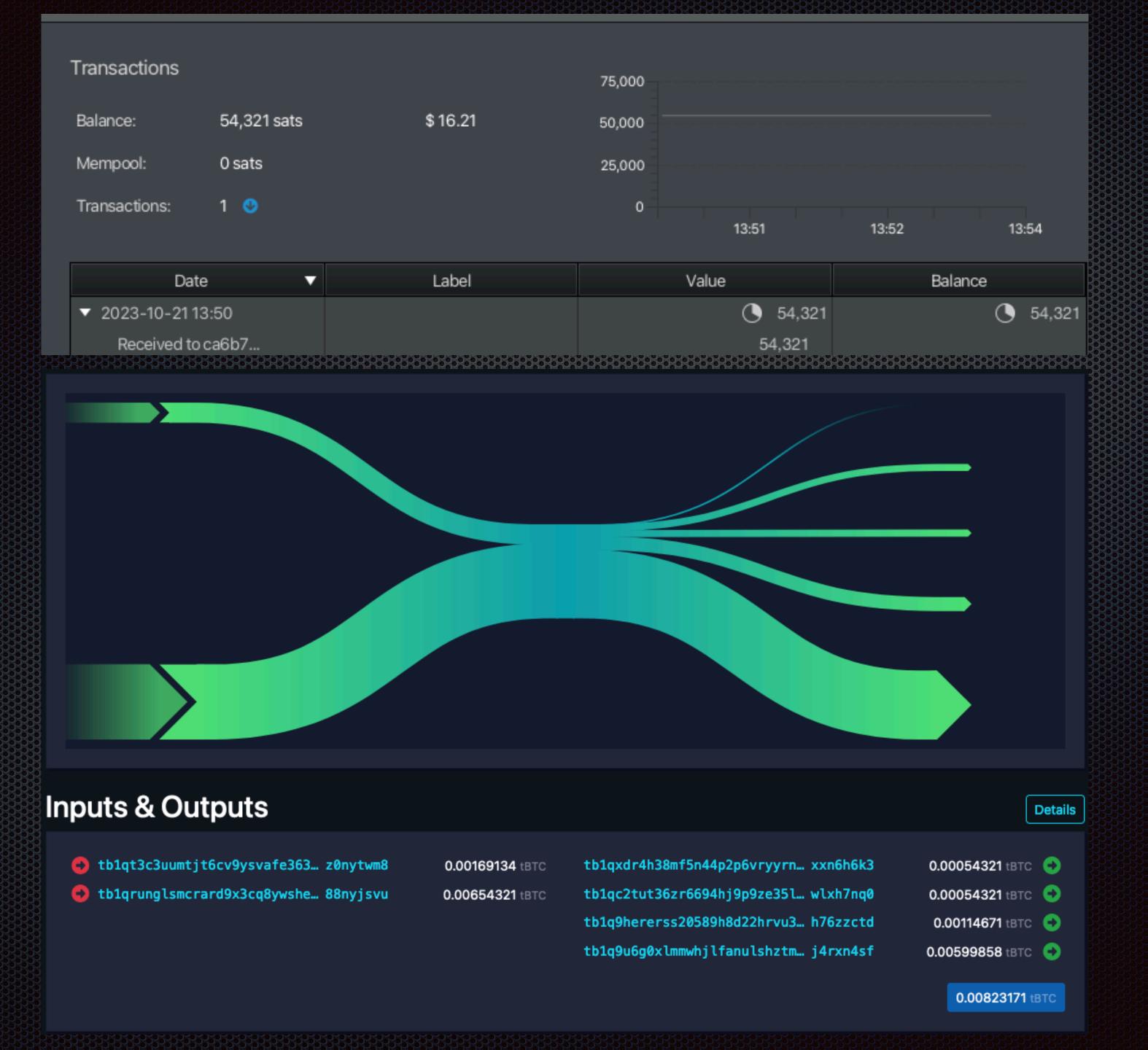














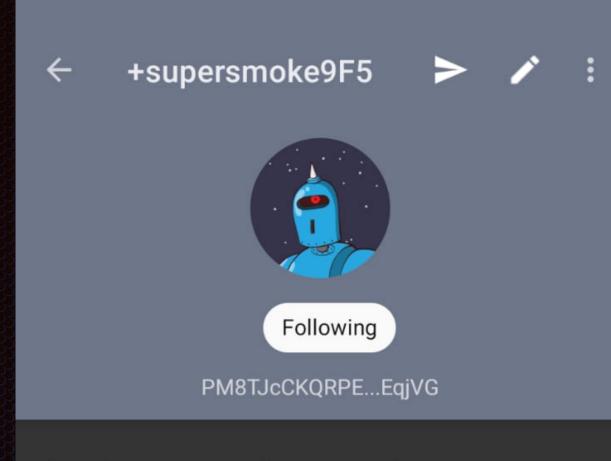




No collaborative (Connected)

If we are connected, we can send funds without the interaction of the other side.





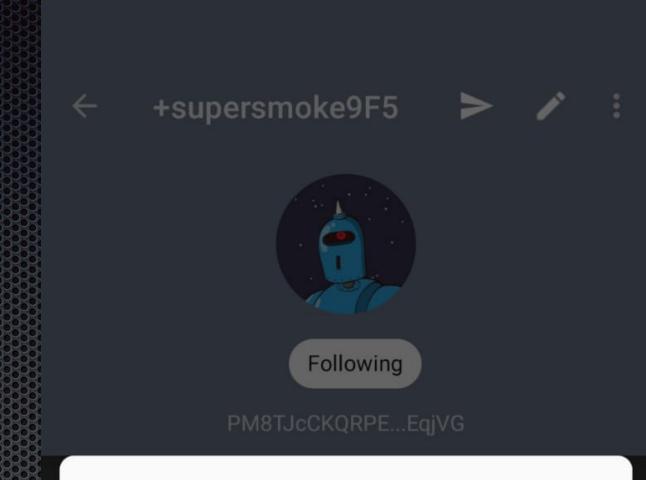
BlockChain Connect with +supersmoke9F5 to generate unique private addresses for sending bitcoin to this contact



CONNECT

Fee: 0.00015000 BTC

History





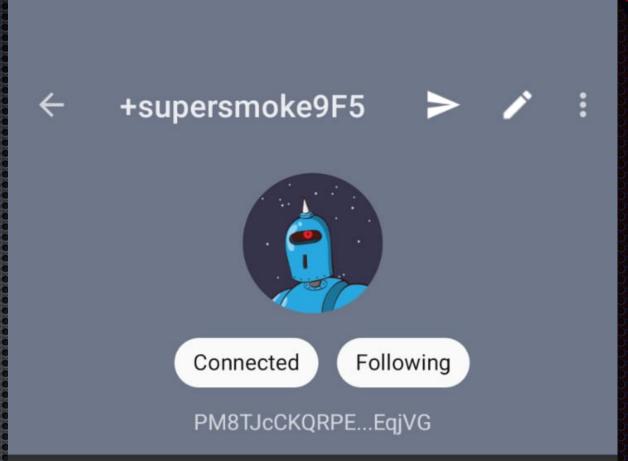
Connect +supersmoke9F5

A one time connection fee of 0.00015942 BTC will be charged to connect to this PayNym

This fee covers the cost of creating a one-time transaction to create a record on the blockchain. This keeps PayNyms decentralized

CANCEL

OK, CONNECT







8 Joinbot Ricochet

PayNym



+supersmoke9F5 (connected)

Privacy Addons

Joinbot

Amount will be sent as a coinjoin output Max spend amount: 1.25 BTC

Ricochet

Additional hops between your wallet and the final destination for increased fungibility

REVIEW TRANSACTION



To +supersmoke9F5

Amount 0.00543210 BTC 543 210 sats

Transaction Priority

Low 1 sat/b

Total miner fee

Estimated wait time

0.00000148 BTC

STONEWALL Protection

Increase deniability and reduce linkability between inputs of this transaction

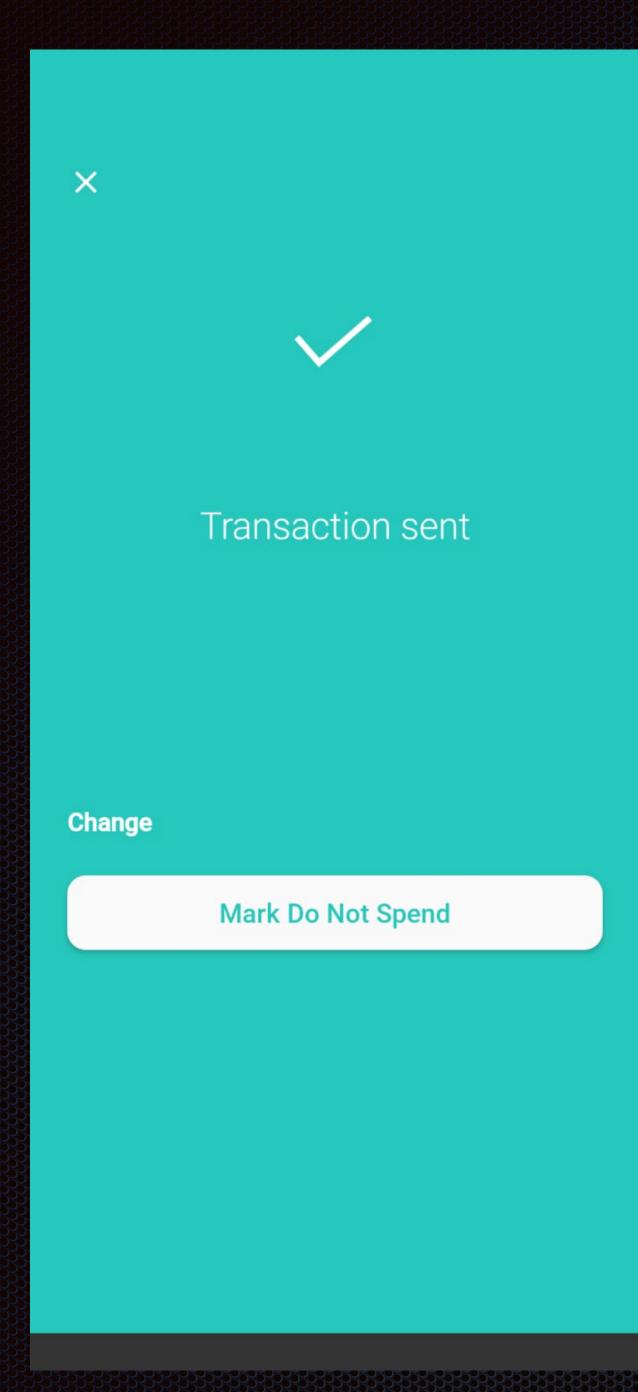
Transaction Entropy

0 bits _...



SEND 0.00543358 BTC







←

-0.00543358 BTC



+supersmoke9F5

Date Today 17:44

Status Unconfirmed (1/3)

Miner fee rate 1 sats

Miner fee paid 148 sats

Transaction ID

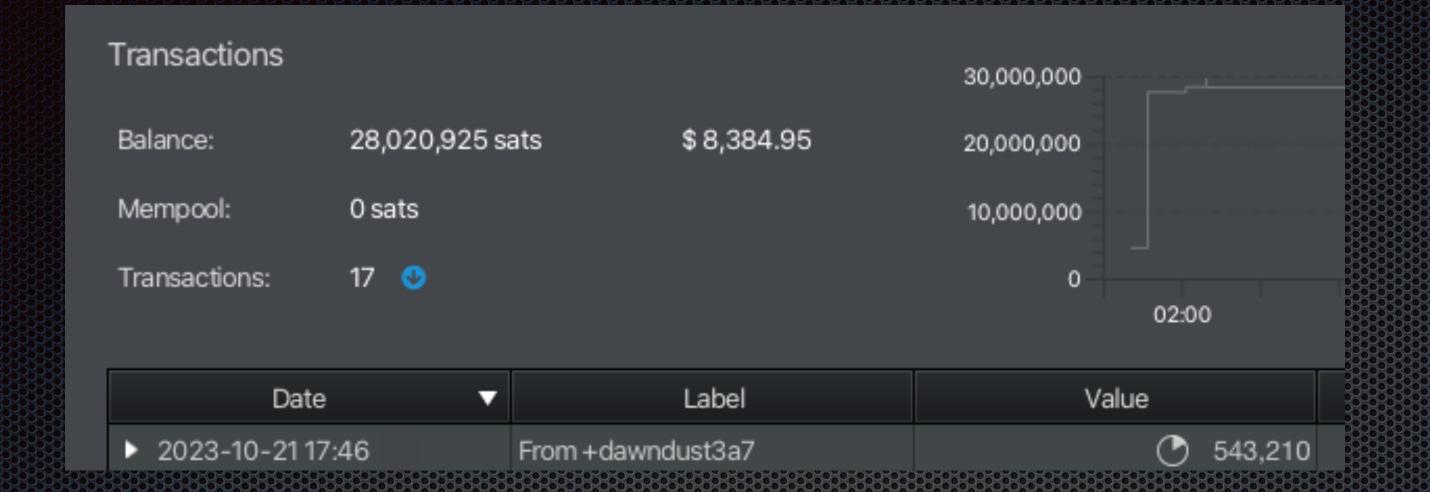
41ddf68334a5ef44a1b80c796eeb6d911b061acc93df 409e1186fd8273f6822a

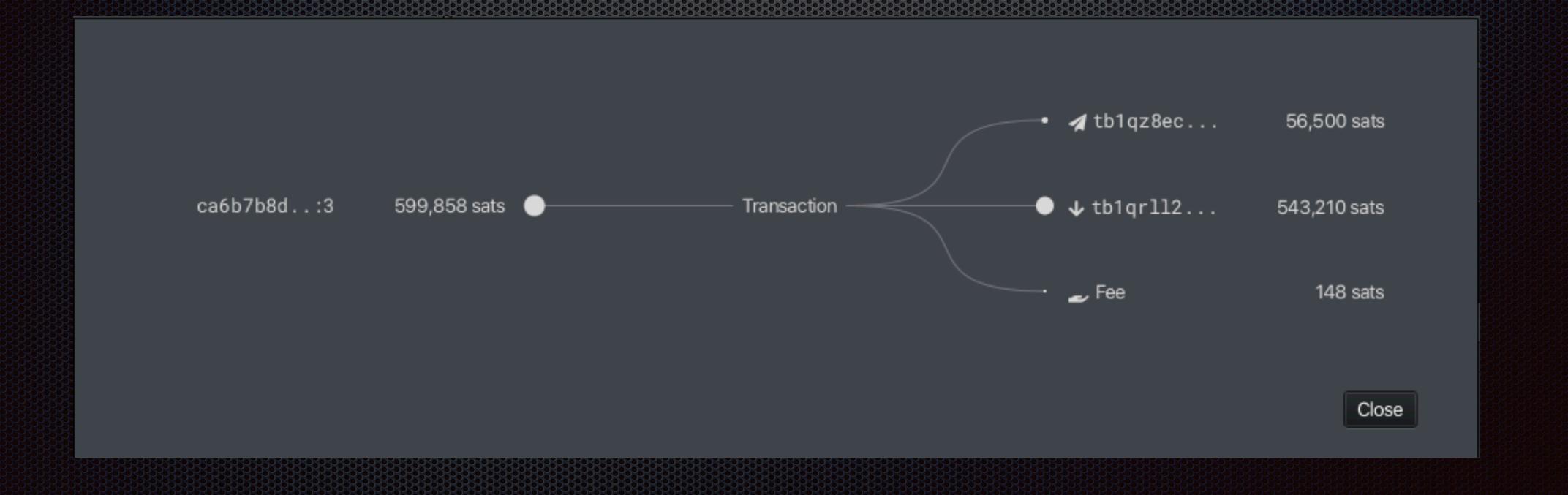
Notes Add

Pay again













"Further, even though collaborative transactions require more effort, the value they provide not only to you but to other users is significant. Consider using these techniques for every transaction you send. It is never too late to start."

-Craig Raw-





Bitcoin: A Peer-to-Peer Electronic Cash System

Satoshin@gmx.com satoshin@gmx.com www.bitcoin.org

Abstract. A purely peer-to-peer version of electronic cash would allow online payments to be sent directly from one party to another without going through a financial institution. Digital signatures provide part of the solution, but the main





Credits:

- https://github.com/bitcoin/bips/blob/master/bip-0047.mediawiki#protocol
- https://gist.github.com/RubenSomsen/c43b79517e7cb701ebf77eec6dbb46b8
- https://bitcoiner.guide/paynym/
- https://www.paynym.is/
- https://docs.samourai.io/en/wallet/features/paynym
- https://sparrowwallet.com/
- https://foundationdevices.com/