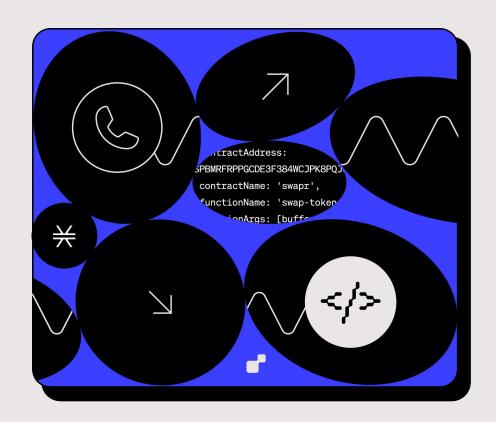
Hiro Monthly Developer Calls

#4 - July 28, 2022



Hiro is developer obsessed

Invite and

inspire

developers of diverse backgrounds to Stacks & Hiro

Strive to

engage

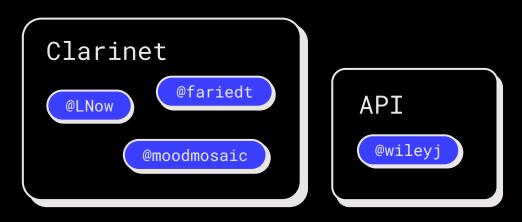
with the <u>developer</u> community directly

Listen

to your needs carefully & improve the DevX



Shoutouts & Thanks



July 2022 Contributors

Thank you!



cractAddress:

WCJPK8PQ)

functionName: 'swap-токер'

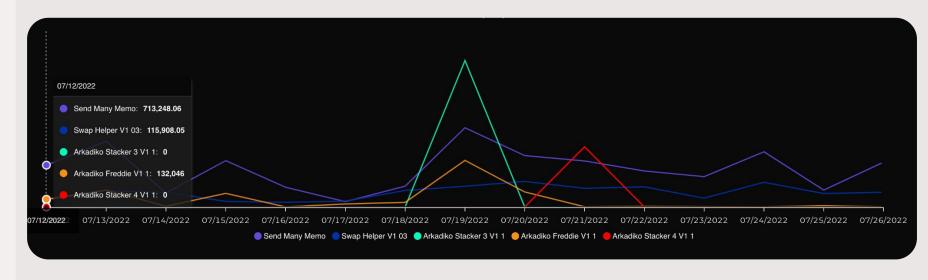
send-many-memo

Just 4 Functions!

- The send-many-memo Clarity smart contract is a simple, but powerful, utility for transferring STX tokens.
- It transfers STX tokens using variables for the amount, the address of the recipient, and a 32 byte buffer memo.
- Just four functions perform the necessary checks and operations for a STX transfer.

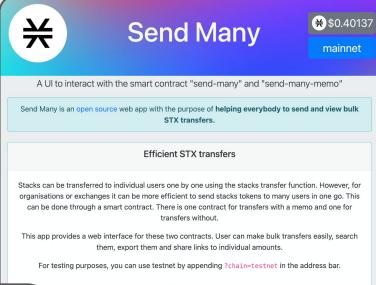
```
:: send-many
(define-public (send-stx-with-memo (ustx uint) (to principal) (memo (buff 34)))
(let ((transfer-ok (try! (stx-transfer? ustx tx-sender to))))
  (print memo)
  (ok transfer-ok)))
(define-private (send-stx (recipient { to: principal, ustx: uint, memo: (buff 34) }))
 (send-stx-with-memo
    (get ustx recipient)
    (get to recipient)
     (get memo recipient)))
(define-private (check-err (result (response bool uint))
                           (prior (response bool uint)))
 (match prior ok-value result
              err-value (err err-value)))
(define-public (send-many (recipients (list 200 { to: principal, ustx: uint, memo: (buff 34) })))
 (fold check-err
   (map send-stx recipients)
   (ok true)))
```

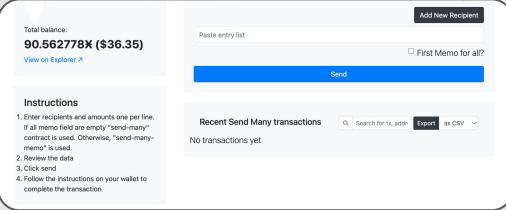
send-many-memo



send-many-memo

- The send-many-memo contract is used by the popular tool "Send Many" developed by Friedger
- It is a browser UI that calls the send-many-memo smart contract



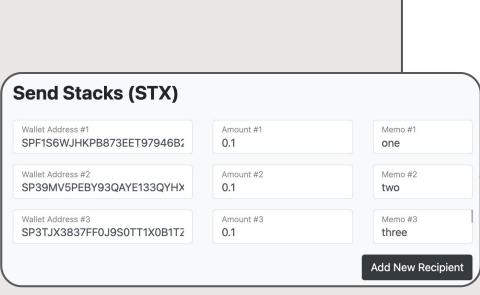


https://sendstx.com/

Start now

send-many-memo

 The UI creates an argument to send to the contract that initiates a transfer to multiple recipients



Arguments recipients list memo to 'SPF1S6WJHKPB873EET97946B24G78NNDXQ22PYJ4 ustx u100000 'SP39MV5PEBY93QAYE133QYHXVCZ8S368SWMA8PTS3 ustx u100000 tuple (memo 'SP3TJX3837FF0J9S0TT1X0B1TZXSJWW30DJJ9HX6Q ustx u100000 Post conditions



SP3GNH2H...CBK688EH

Transfers exactly 0.3 STX

send-many-memo

send-stx-with-memo

- Accepts amount of ustx, recipient principal, and text memo
- Attempts a stx-transfer?
- Prints the memo
- Gives feedback about successful transaction

send-stx

- Passes in the recipient map
- Pulls the correct recipient from the recipient map and passes to send-stx-with-memo
- Recipient info: ustx amount, principal, and memo

send-many-memo

check-err

A simple function for checking booleans returned from other functions to ensure successful transfer

send-many

Pulls the map of recipients and checks for errors using check-err function

The **fold** function condenses **sequence_A** into a value of type **B** by recursively applies the function **func** to each element of the input sequence and the output of a previous application of **func**.

```
(define-public (send-many (recipients (list 200 { to: principal, ustx: uint, memo: (buff 34) })))
  (fold check-err
      (map send-stx recipients)
      (ok true)))
```

Link to contract in the Stacks Explorer



Community Topics

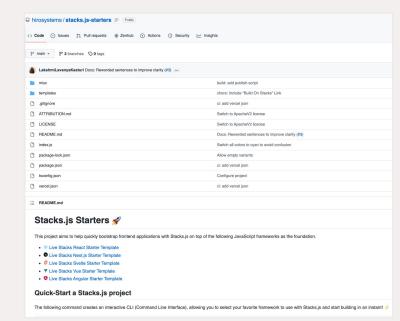
Topic 1: How can Hiro improve communication and further be more transparent?



Community Topics

Topic 2: Announcing Stacks.js Starters





Community Topics

Topic 3: Q3 2022 Product Focus

API

- Maintain 99.99% uptime
- Observe and update FT/NFT/SFT metadata
- · Microservices architecture
- Performance improvements

Stacks.js

- Stacks.js Starters CLI & GUI DevEx
- · Hyperchains compatibility
- Stacks 2.1 compatibility

Clarinet

- VS Code web extension
- Hyperchains compatibility
- Stacks 2.1 compatibility
- Trigger off-chain logic for BTC/STX on-chain events

Blockchain

- NFT use-case launch on Testnet!
- Performance benchmarks
- Abstraction to implement other VM compatible hyperchains

Wallet

- BTC support
- Hyperchains compatibility
- Resolve Tx broadcasting issues
- Display NFTs held per account

Explorer

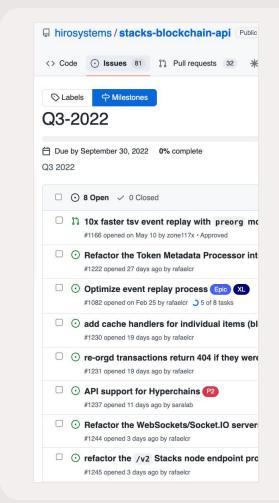
- Faster Explorer!
- Deliver richer insights when dependent APIs & systems are down or if they are slow

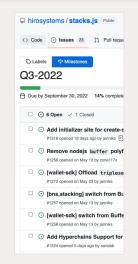
Docs

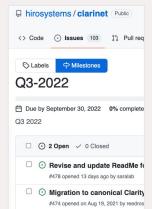
- Revised onboarding and getting-started DevEx
- FAQs & Troubleshooting guides

Are you looking for the roadmap, timelines, open feature requests, or report problems?







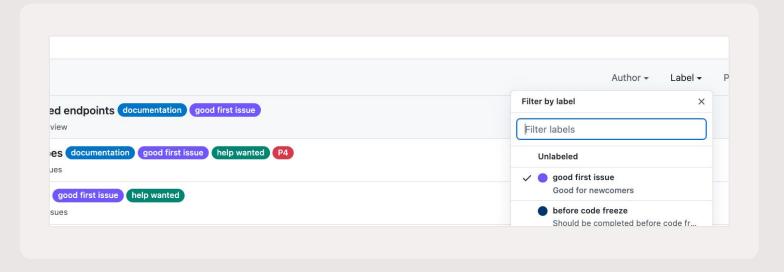




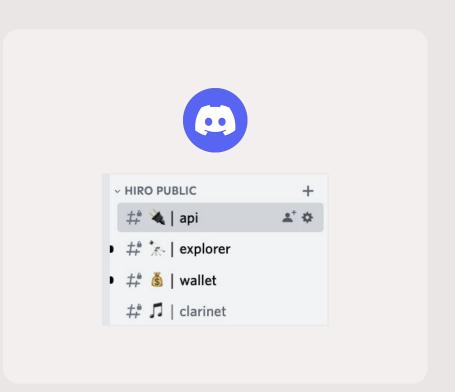
New to Hiro, and are looking for ways to contribute?



github.com/hirosystems



Are you wondering how to engage with Hiro or ask questions?



Thank You

