

HIRO MONTHLY DEVELOPER CALLS

#6 - October 27, 2022

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TODAY'S AGENDA

01. Purpose

02. Shoutouts & Thanks

03. Community Topics

04. Resources

Reinforce
our
developer
delight
obsession

Strive to
engage with
the developer
community
directly

Invite and
inspire
developers of
diverse
backgrounds to
Stacks

Listen to
your needs
carefully &
improve the
DevX

THANKS TO OUR CONTRIBUTORS

Stacks.js

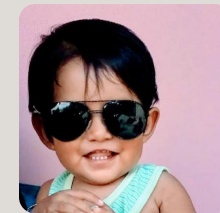


- @friedger



- @BowTiedDeployer

Clarinet



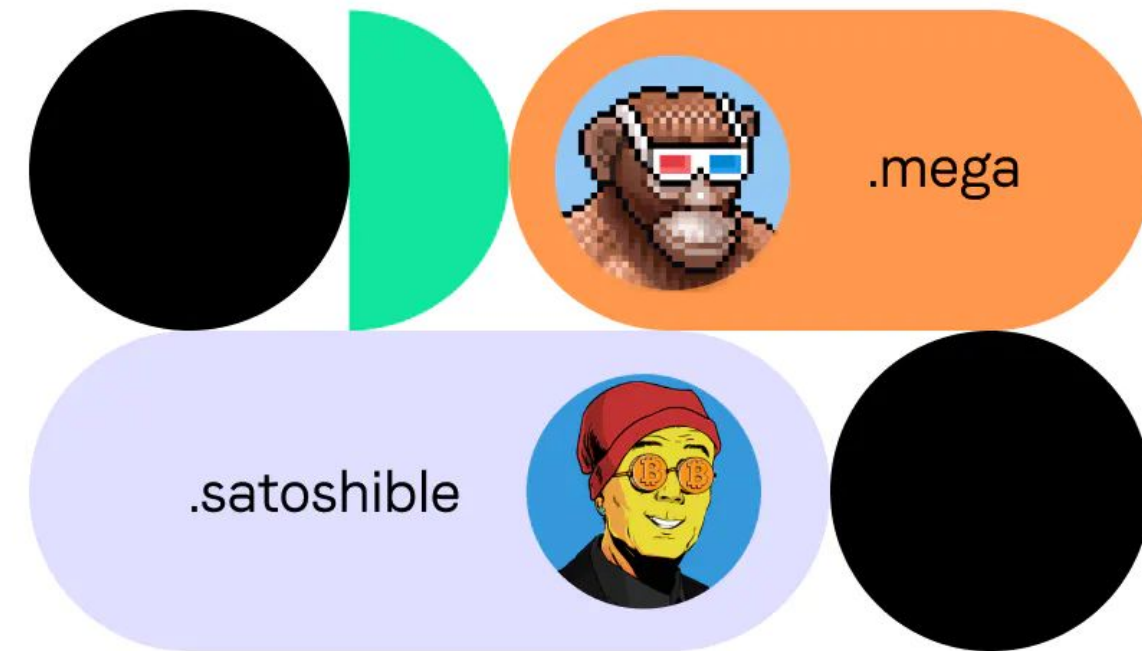
- @loquera666

03.

COMMUNITY TOPICS

MAKING BNS READY FOR PRIME TIME

- BNS is currently the most popular contract in the STX ecosystem.
- As one of the first contracts launched on Mainnet, it is filled with various limitations.
- How do we improve it?
 - Tradability
 - Multiple identifiers per address
 - ENS playbook
 - A new approach...



GRANTS GOODIES

Grants and residencies have supported some of the most successful startups in the ecosystem

Recent Developments:

- Back to Github
- Grant prioritization
- Cohort Model
- Grant Review Committee
- Wishlist Grants

→ Checkout the Grants Launchpad
grants.stacks.org



XVerse Stacks WalletConnect	\$17.5k	Setzeus Standard NFT → FT Staking (SIP)	\$25k
Web3 Startup Lab Cohorts 2 & 3 Support	\$100k	gandalf77 stxmempool.space	\$25k
dylanft StableSwap DEX on Stacks	\$17.5k	Shane Reiser Stacks Global Hackathon Program	\$25k
StackerDAOs Bitcoin-backed DAO Treasury Management	\$48k	NFT2Loan NFT Loan Lending Protocol	\$25k
czeslaw Mobile GameFi Toolset (F2P and P2E Merger)	\$12k	Trajan Scaling and API (On-chain Personal Credentials)	\$46k
rswol Bitcoin SQL Connector	\$20k	Metastack Lightning Stacking Pool	\$20.5k
Flatlay Community Event Mgmt & Inventory Tracking	\$22.5k	Stacks Degen Breaking into GameFi: Infrastructure & Development	\$35k

HIRO DEVELOPER SURVEY RESULTS

Twice a year, Hiro polls the Stacks dev community to learn more about your experience using Hiro tools. Your insights help us prioritize new features and products.

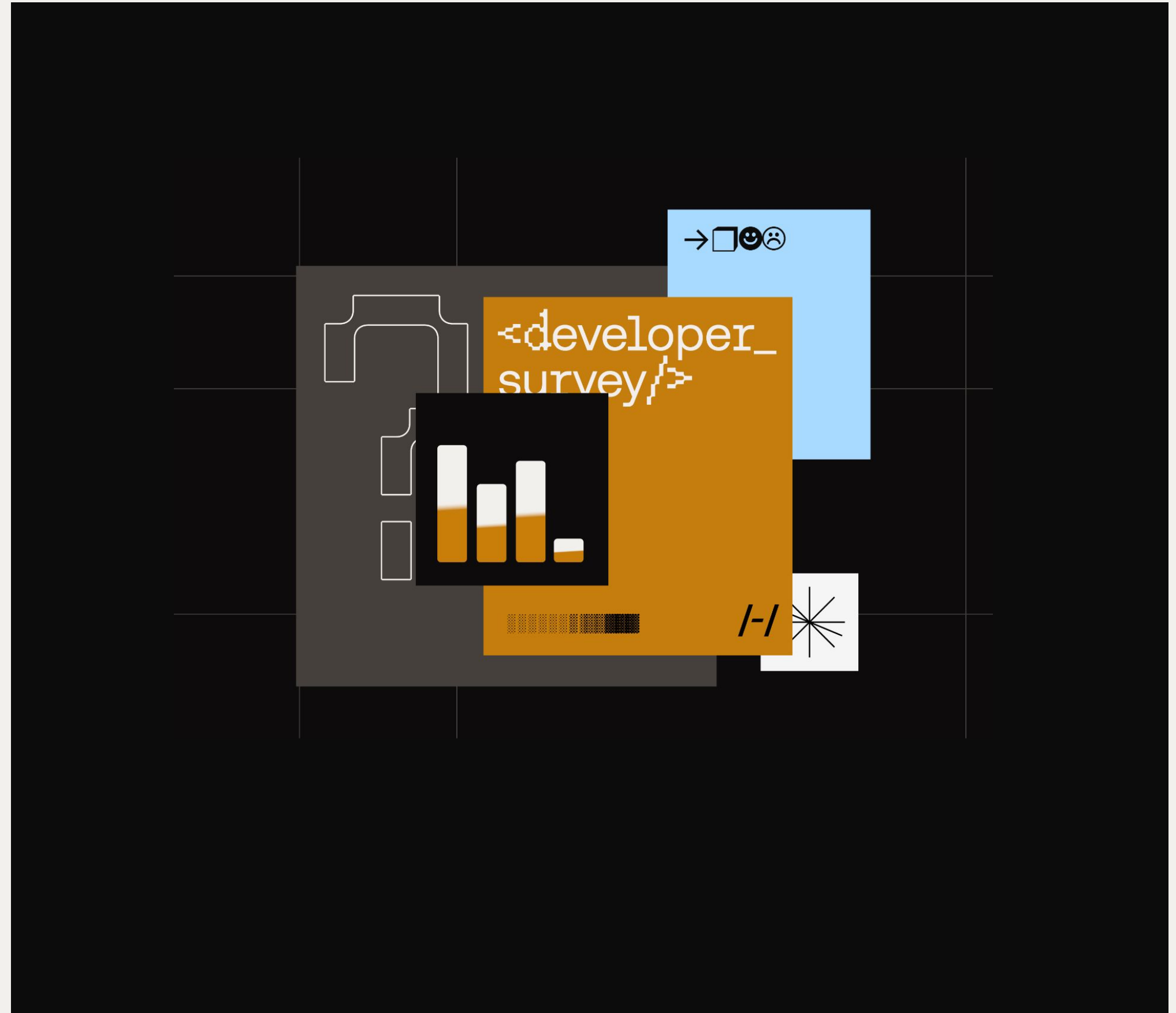
31% of respondents are employed in Web3

NFTs and **DAOs** = Most Popular

Average time in  ecosystem: **6.6 months**

85% = Men | **75%** = Ages 25 - 44

50+ countries responded to the survey



STACKS 2.1 - NEW KEYWORDS & FUNCTIONS

- With the Stacks blockchain's 2.1 upgrade approaching, there are a bunch of new built-in Clarity functions that will be included.

→ Read Mechanism's Blog Post on
Clarity in Stacks 2.1

blog.mechanism.so



Listed in Mechanism blog post

- `tx-sponsor?`
 - A transaction signed by a user but whose fees are covered by a sponsor
- `is-in-mainnet`
 - Returns true or false if network is mainnet
- `buff-to-[u]int-le/be`
 - Convert buffers to integers, great for converting random hashes (vrf-seed) into a random number and probabilities
- Converting strings to integers (and back)
 - `(int-to-ascii u32) ;; "32"`
 - `(string-to-uint "32");; (some u32)`
 - `(string-to-uint "not-number") ;; none`
- `Slice`
 - Utility for returning selected elements between x and n of a hash, buffer, or string

Listed in Mechanism (cont.)

- Comparators for strings and buffs

- `(define-read-only (test-string-comparisons)`
- `(begin`
- `(asserts! (> "bbb" "aaa") (err u0))`
- `(asserts! (>= u"bbb" u"bbb") (err u1))`
- `(asserts! (< 0x01 0x02) (err u2))`
- `(ok true)`
- `)`
- `)`

- STX transfer with memo

- `(stx-transfer-memo? u1234 tx-sender 'ST000000000000000000000000000000002AMW42H 0x010203)`

- is-standard

- Checks if given principal is in correct format for current network

- principal-of

- Returns STX principal of a public key

Latest and Greatest!

- **Clarity versioning for Stacks Smart Contracts**

- New versioning scheme: `ContractContext` which specifies version, allows for Clarity 1 and Clarity 2 contract interoperability

- **New Trait Semantics**

- Surprising behavior discovered over Clarity 1 life, new changes
 - Discarding “trait type” —> traits handleable like principals
 - Traits can be stored within lists, tuples, optionals, and responses, and dynamic dispatch to their methods will be permitted

- **More methods and keywords!**

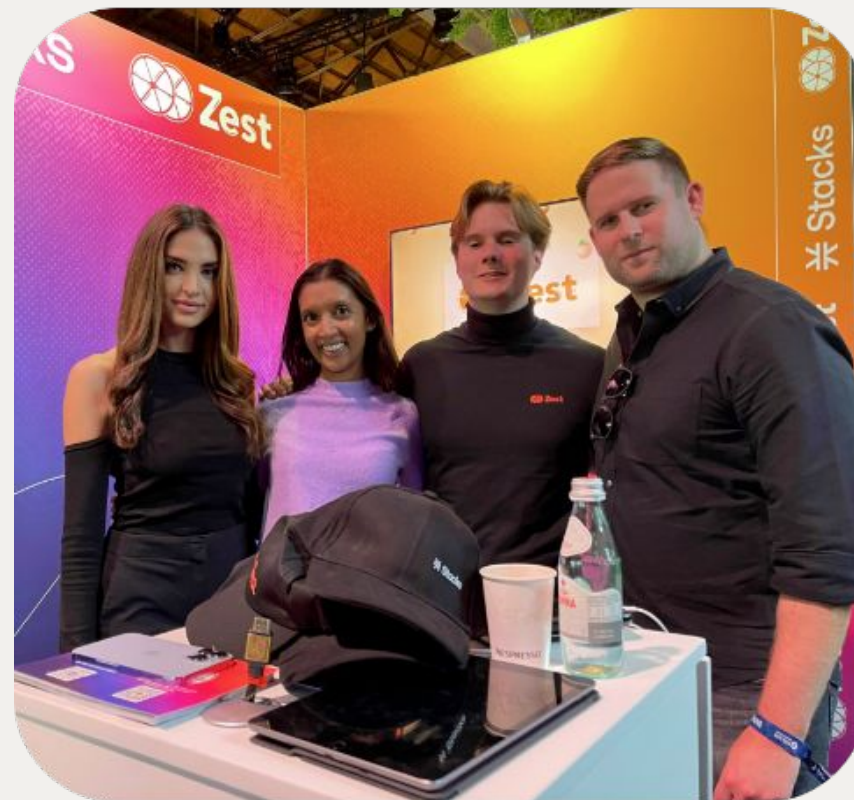
See Github Discussion at SIP-015 for Stacks 2.1 and Clarity 2 changes:

<https://github.com/stacksgov/sips/blob/feat/sip-015/sips/sip-015/sip-015-network-upgrade.md#clarity>

BITCOIN AMSTERDAM

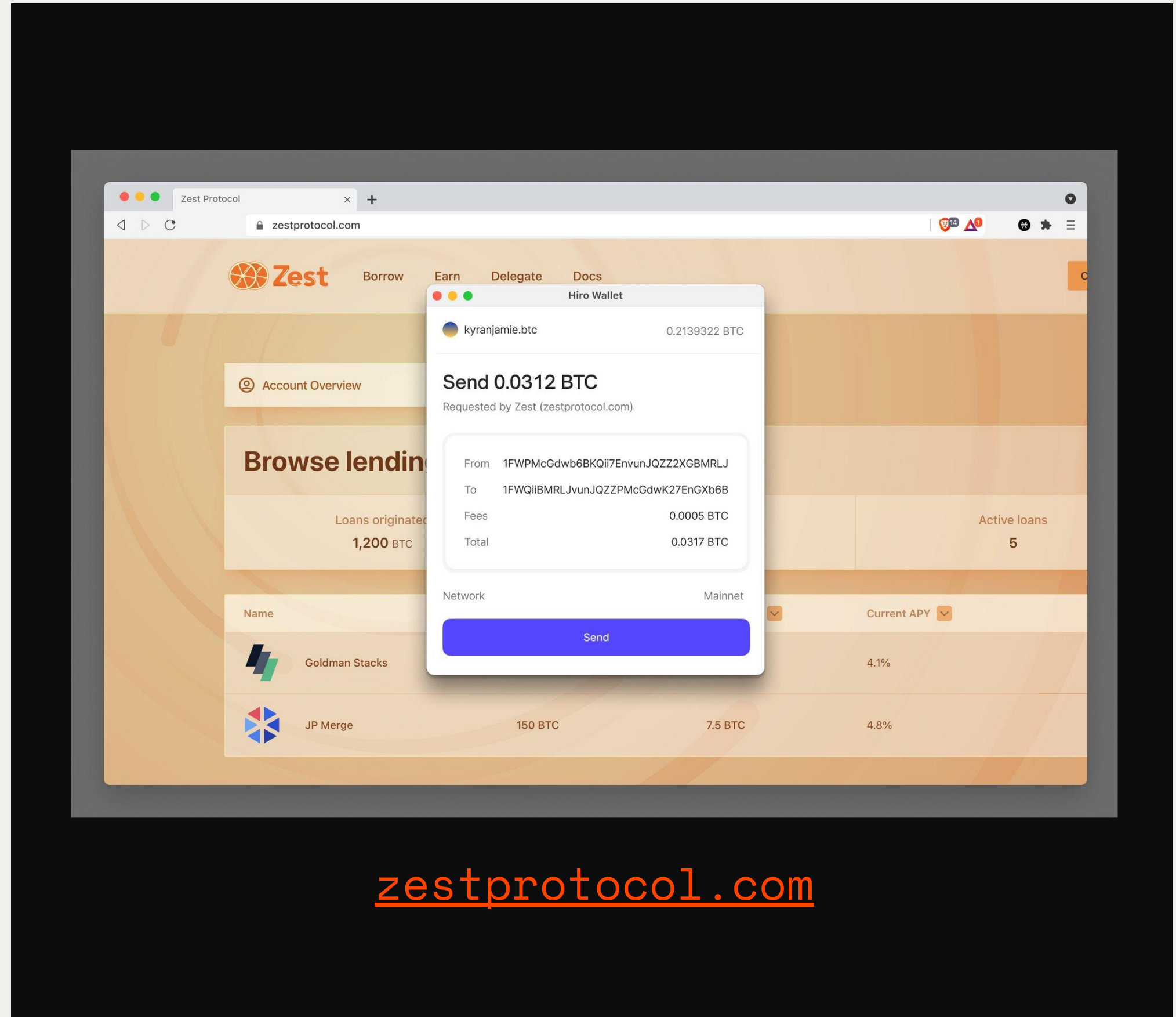
- People from all different backgrounds came together to talk about innovation around Bitcoin.
- The panelists deep-dove into the latest development in NFTs, DeFi, DAOs, and identity fueled by Bitcoin.





ZEST PROTOCOL

- Zest Protocol is a Bitcoin lending protocol.
- It operates on-chain and is open-source.
- Zest enables Bitcoin liquidity providers to earn Bitcoin yield through professionally managed lending pools that lend to the most credit-worthy borrowers in crypto.
- For borrowers, Zest offers on-chain Bitcoin loans directly against their balance sheet.
- Launched on Stacks Testnet on October 20th



SIP COMMUNITY CALL

SIP = Stacks Improvement Proposal

- A friendly space to review recent SIP activity, share your SIP ideas with the community, and engage with the folks evaluating SIPs
- e.g. consideration advisory boards, steering committee, etc.
- Inform, educate, advocate, support, discuss, help you next actions
- Friday 11am ET weekly
- Have an idea about new standards? Wanna listen in or participate in critical blockchain conversations? Come join!

→ community.stacks.org/events

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The screenshot shows a video call interface. The main content area displays an agenda slide with the following text:

Agenda

Why Build This?

- Validation
- [My Role](#)

Community

- Existing
- Priorities/Feedback

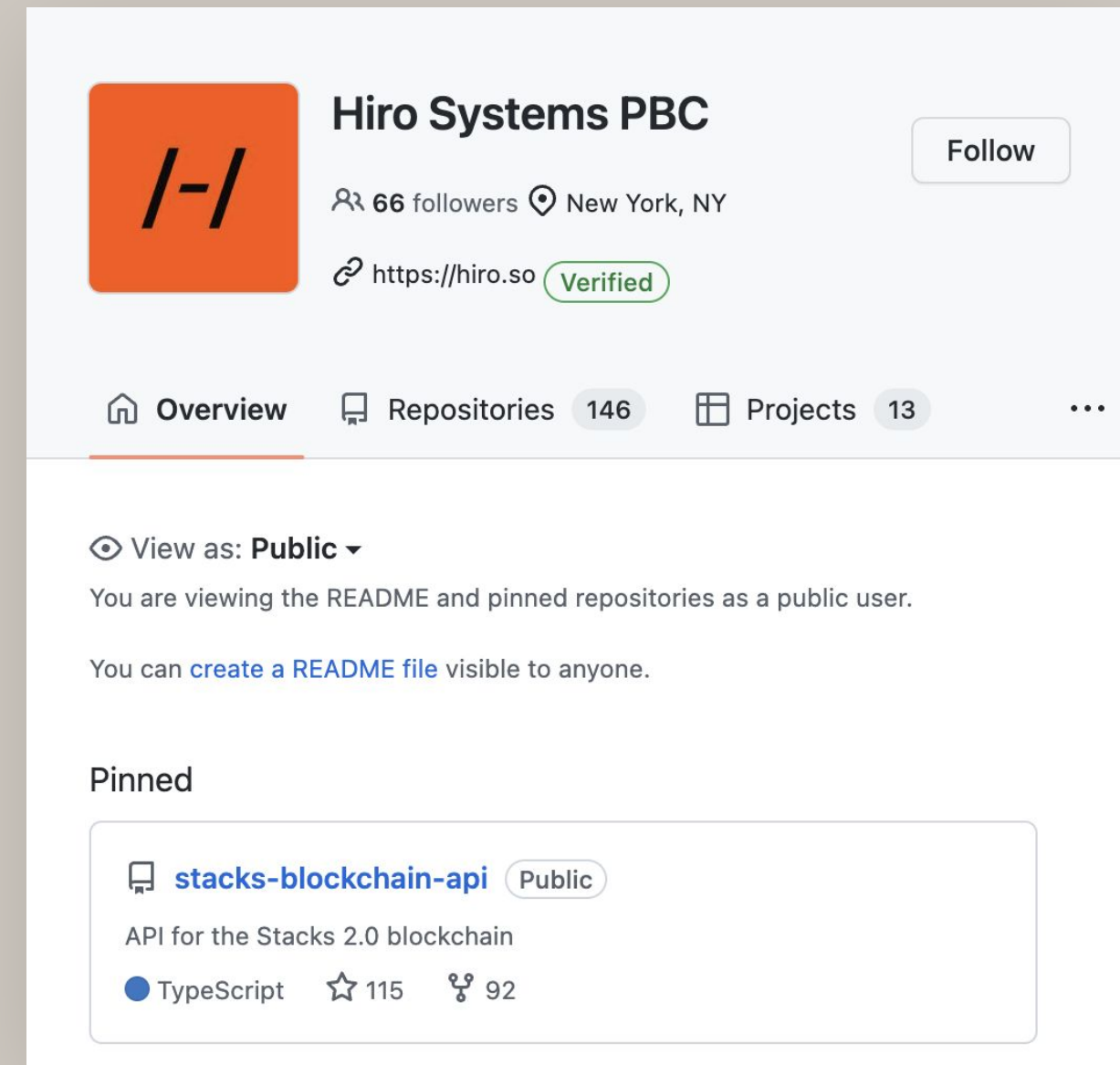
Technical

- Validation
- My Role

Two video thumbnails are visible. The top right thumbnail shows a participant with the name 'setzeus' in the bottom left corner. The bottom center thumbnail shows a participant with the name 'herogamer' in the top right corner. A red 'Recording' indicator is visible in the top left corner of the bottom thumbnail.

New to Hiro &
looking for
ways to
contribute?

→
github.com/hirosystems



Looking for
Product
Roadmap, timelines,
open feature
requests, or
report problems?

→ docs.hiro.so/roadmap

≡ /-/iro : Docs Search...

Product Roadmap

At Hiro, we want to make development on Stacks a fast and painless experience for developers. Hiro's product teams will focus on the following high-level themes to achieve that goal.

Product	Milestone
Clarinet	hirosystems/clarinet hirosystems/orchestra
Explorer	hirosystems/explorer
Stacks Blockchain API	hirosystems/stacks-blockchain-api
Stacks.js	hirosystems/stacks.js
Subnets	hirosystems/stacks-subnets

Ask questions, share your feedback, or probe for clarification by commenting on the issues associated with each project's GitHub milestones listed above.

Wondering how
to engage with
Hiro and ask
questions?

→ stacks.chat

HIRO PUBLIC

#🔒🔌 | api

#🔒🔭 | explorer

#🔒💰 | wallet

#🔒🎵 | clarinet

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#🔒🔧 | stacks-js



STALKEV

2023

Presented by /-/iro

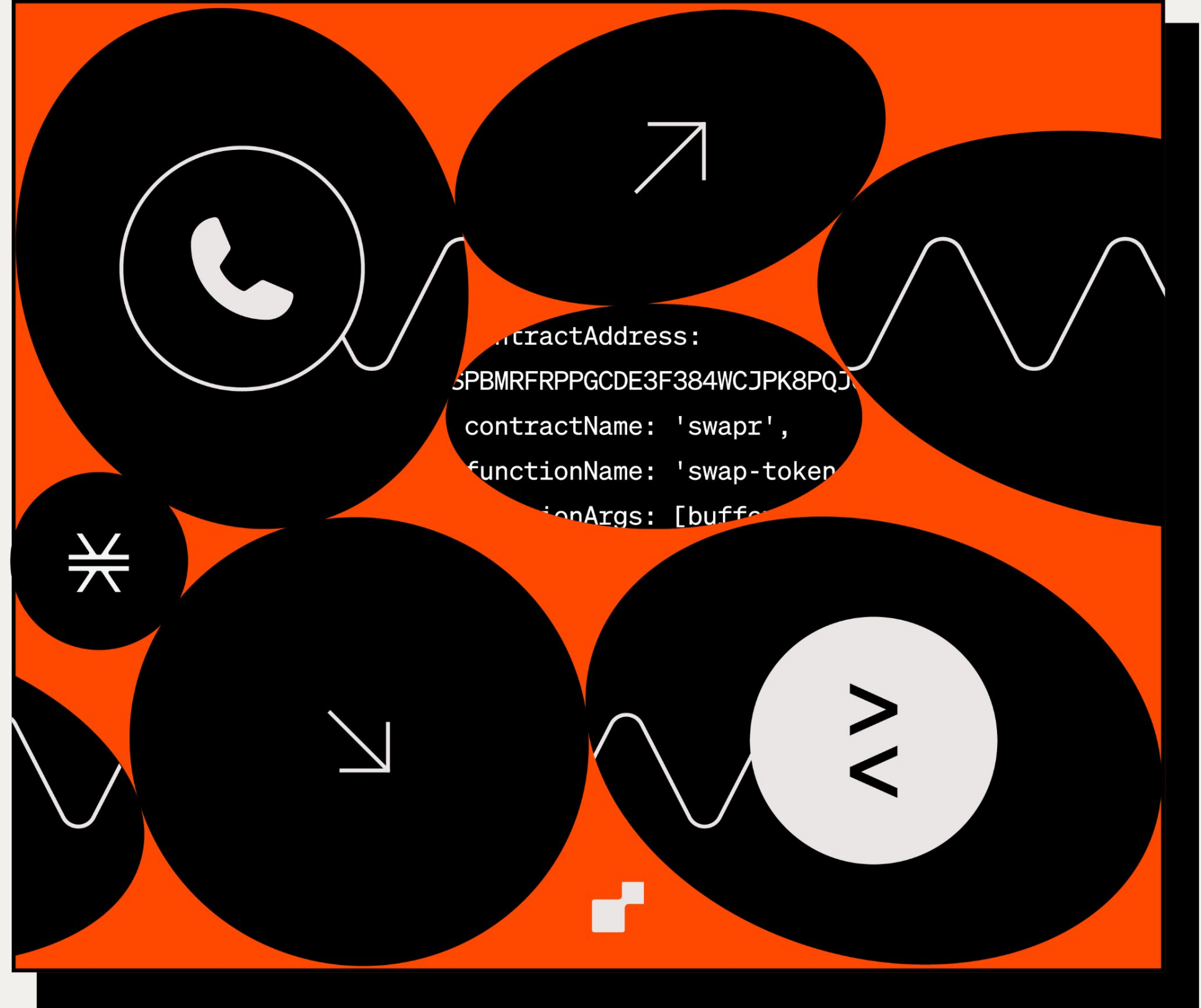
It's time to sharpen your skills in this October's Stackathon. All month long we're bringing you coding challenges to push your imagination to the limits—with opportunities to win great swag along the way.

hiro.so/stackathon



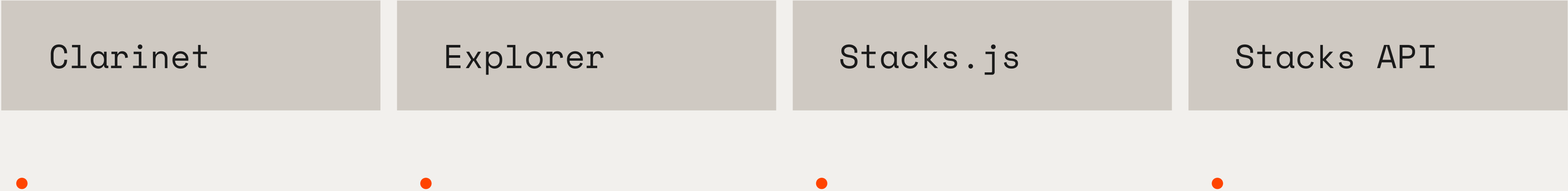
THANK YOU.

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PRODUCT UPDATES

Hiro Product Updates



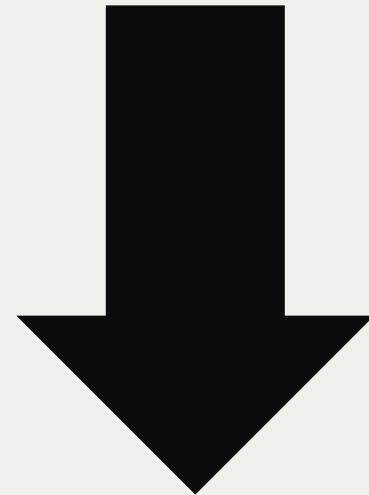
EMPTY SLIDE TEMPLATES



On this slide
you want to
compare two
points.

This is the
other point,
obviously.

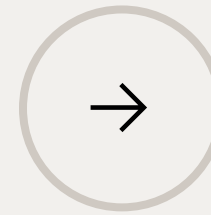
NON-THEMED /
TEMPLATED SLIDES



*These slide
templates are not
on the theme
because of their
complexity/need for
more flexibility

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The end.
Thank you.



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COMPONENTS TO
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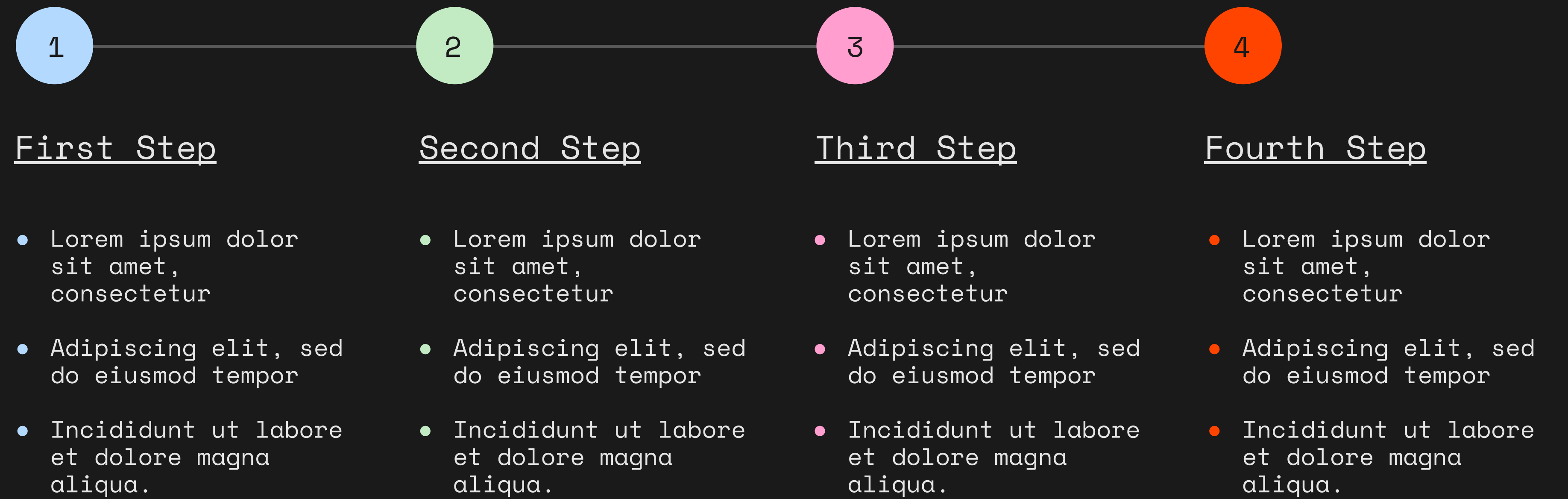
EDITABLE INDEX

01. Use this index

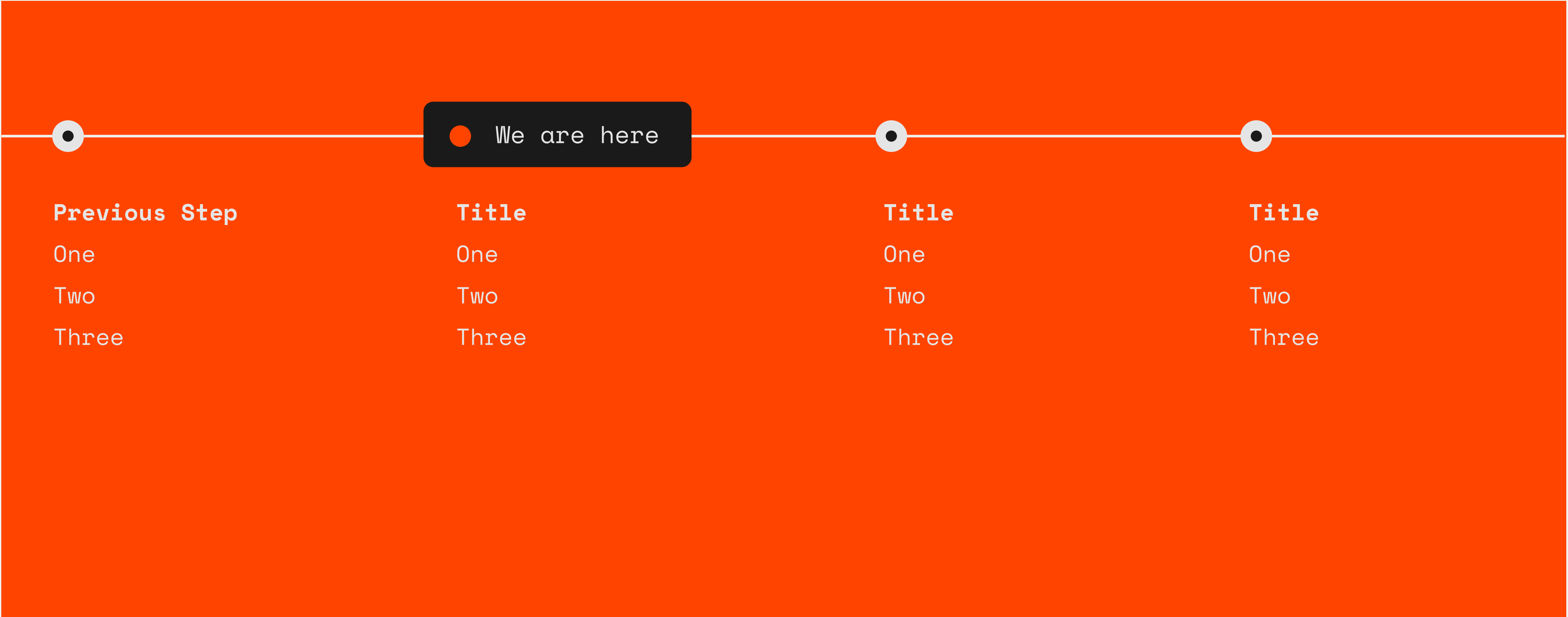
02. If you need more

03. Or less sections

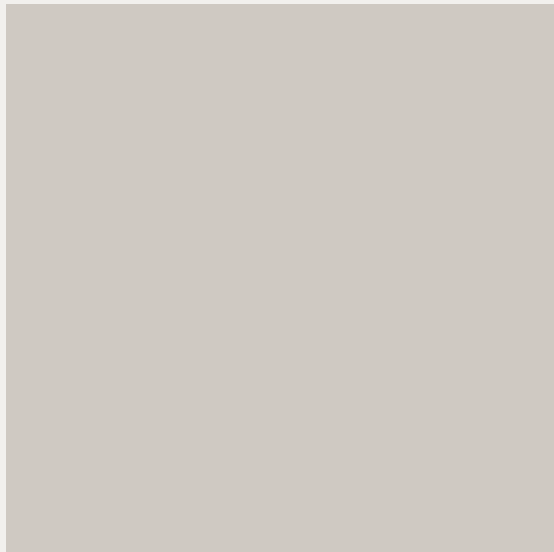
Step by step slide



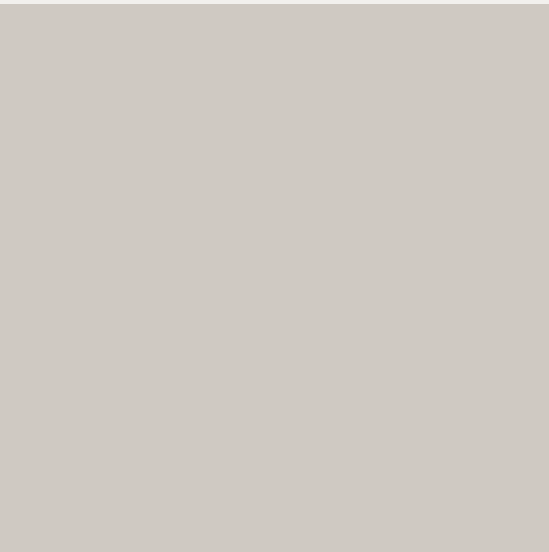
Timeline slide



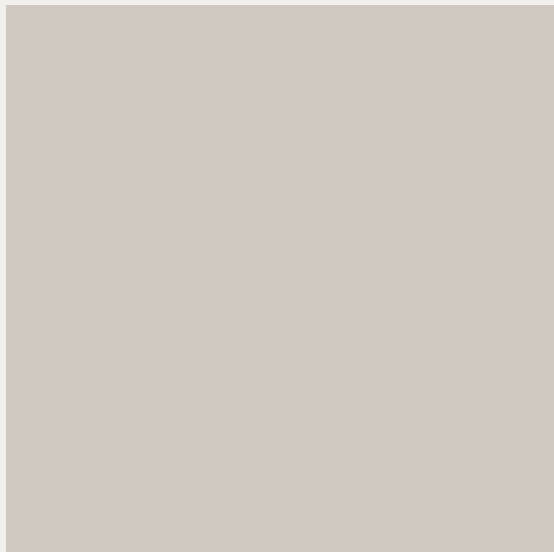
People slide



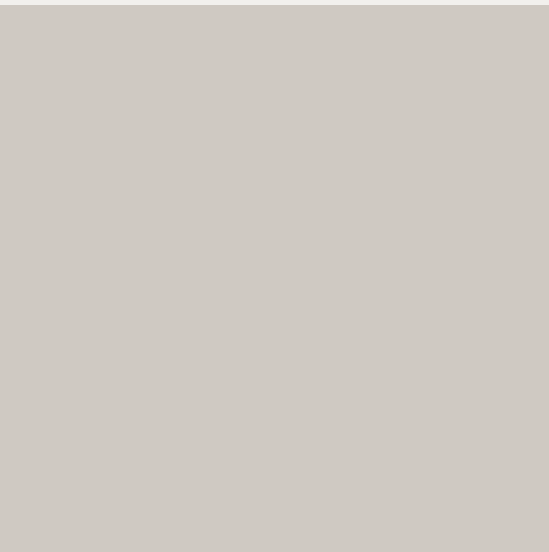
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SLIDE WITH CARDS

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Slide with vertical cards / accent

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Image slide



Caption here

Two image slide



Caption here



Caption here

ONE IMAGE
+ TITLE



Caption here

TWO
IMAGES +
TITLE



Caption here

Accent slide
with image



SLIDE WITH IMAGE AND TEXT

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