

Soulbound Tokens and Digital Identity

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What Soulbound Tokens Are

Soulbound tokens (SBTs) are non-transferable blockchain tokens first formally proposed by Ethereum co-founder Vitalik Buterin, economist E. Glen Weyl, and lawyer Puja Ohlhaver in a May 2022 paper titled "Decentralized Society: Finding Web3's Soul." Unlike standard NFTs or fungible tokens, SBTs cannot be sold, traded, or moved to another wallet once issued. They are bound to a specific address — called a "Soul" — and are intended to represent persistent attributes of a person or entity: credentials, affiliations, memberships, reputations, and achievements.

The core design constraint is intentional. Because identity in the real world is not freely transferable — your university degree or medical license belongs to you specifically — SBTs attempt to bring that property on-chain. An employer, institution, or community can issue an SBT to a wallet, and the presence of that token serves as a verifiable, tamper-resistant record of a relationship or accomplishment.

How They Work Technically

SBTs are implemented as smart contracts on a blockchain, most commonly Ethereum or compatible chains. The issuing contract includes logic that disables or reverts transfer calls, making the token non-fungible in the directional sense: it can be minted to an address but cannot leave it through normal transfer mechanisms. Some implementations allow the holder to burn their own token, which gives individuals a degree of control over their own record — for instance, to remove a credential from an organization they have left.

Because the tokens live on a public ledger, third parties can verify the credential without contacting the original issuer. This is meaningful for cases like professional licensing, academic credentials, or DAO membership, where the issuing institution may not always be reachable or may have an incentive to obscure records.

Identity Use Cases and Real Limitations

The proposed applications are wide-ranging. Decentralized autonomous organizations could use SBTs to gate voting rights based on demonstrated participation rather than token holdings. Lending protocols could extend undercollateralized loans based on a borrower's on-chain credit history encoded as SBTs. Event organizers, employers, and educational platforms have experimented with issuing attendance and completion certificates as non-transferable tokens.

The limitations are equally concrete. Wallet loss or compromise is a serious problem: if a Soul address is lost, so is the entire identity record attached to it, with no recovery path unless the system has a social recovery mechanism built in. Privacy is also a genuine concern — aggregating SBTs across a single address creates a detailed, immutable, and publicly readable profile that users may not want exposed. Selective disclosure mechanisms, including zero-knowledge proofs, have been proposed as mitigations, but they add implementation complexity. There is also no universal standard yet, meaning SBTs issued by one platform are not automatically legible to another.

Current State of Adoption

As of early 2024, SBTs remain mostly experimental. Several platforms have issued non-transferable tokens under the SBT label, including Binance's account-bound BAB token for KYC verification and various DAO credential systems. The Ethereum ecosystem has debated formal standardization through EIP proposals, but no single standard has achieved broad consensus. Academic institutions and professional licensing bodies have shown interest but have not deployed at scale. The concept has moved from theoretical proposal to proof-of-concept stage in a number of contexts, but the hard problems of key management, privacy, and interoperability remain unsolved at the protocol level.

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Contents: Article (p.1) -> Seed Phrases (pp.2-4) -> Related Documents (p.5)

MNEMONIC BACKUP PHRASES

The following pages list 54 example seed phrases assembled from the 2048-word BIP39 dictionary.

[] bird guitar leaf bus artwork candy battle space ice hundred father exhaust
2 · 5

MNEMONIC BACKUP PHRASES

[] cushion alien speed citizen economy helmet item reunion thank eye develop clown

[] renew silent move forest brush erosion magic kite dream guess bread defy

[] museum mechanic hand cloth ramp cheap improve mobile short lake sketch welcome

[] segment boss toast fragile wasp such order pet concert either affair left

[] october boss nose buffalo swift wait fresh vital business puzzle muffin evolve

[] rude visa fossil spin venue hint endless coyote capital rib rebel document

[] arrest salad atom skull perfect music seminar dish quote snow grocery click

[] found knife indoor someone copper scout dinner dirt meadow gas side left

[] shrug embrace color advice approve garden decide demise harvest peace report baby

[] paddle stereo sign cover kidney speak wonder crater air throw visit person

[] face unhappy merge possible issue camp silk square impact portion used chest

[] target float business happy sphere engine camera palace ankle ancient nothing word

[] raise purity clap connect shiver poverty sting roof sound usage aim knife

[] puppy snap educate scorpion invite cigar middle nothing razor void clay social

[] chronic fish prison tip guard little deny scrap intact trumpet claw rude

[] collect fury melody faint stove fiscal sense upset firm orphan develop horn

[] human predict dragon crumble hole legal benefit toward flush marriage jeans quarter

[] buddy unable effort boring left finish crazy tip rabbit elite fiber enlist

[] impose journey ability net destroy village rice crowd pig parrot sea certain

[] legend staff float milk height alarm shoot night marine slim destroy near

[] panther stove accuse wool like goddess report option gain end waste scissors

[] fit oak carbon plastic scrap card october jump bridge fabric ozone enjoy

[] negative guilt knife follow sleep stomach improve merry mimic make mixed horn

[] law rule upon during flip must swap half speed aspect napkin effort

[] copy bounce deputy mention marine into pumpkin chaos broom punch game only

[] staff shop cream label know person danger elegant affair describe where mass

[] please forward odor behind copy spray quick toe slush color slab adult

[] chicken dilemma defense garden foster add okay suit negative arrow describe fury

[] river accident kind price peace wolf chunk panther casual erase speak retire

MNEMONIC BACKUP PHRASES

[] phone ankle eager polar sample history permit entry burger concert margin will

[] foil erase blue drastic gas nerve female achieve nature exotic tip plug

[] vibrant monkey submit tag grit balance kite barely parrot across legal include

[] run carpet dentist typical slush cupboard health spring bubble oblige peace dentist

[] bicycle enact inside lounge thought maximum squirrel slow hat stool cube boost

[] tourist bubble kitchen vibrant return either pretty dune skirt fall core spend

[] equip wagon curious coconut affair print humor upset equal any prefer health

[] runway unique record estate vessel wing neglect school stick permit trash toilet

[] tag van melt body nominee sentence panda husband asset choose call coconut

[] smoke tuition motion cigar front please melody reform ginger exile attend party

[] labor candy demand duck bargain prevent kick nurse simple party empower analyst

[] oyster giggle bicycle grow limb route screen oxygen grass diesel rice dolphin

[] element enough mountain bridge story fee brick glance endless pottery bacon diagram

[] defense march enhance wage unaware usage input bright forum glue key plunge

[] tape trap artefact sugar loyal close mouse village tonight hub canal vital

[] basic oval arrow cave sail boss gold truth tackle vote tiny mask

[] feel defense bullet wage fuel submit need alien cloth quick broccoli pull

[] mixture rally spare method people clarify annual essence uphold power meat nurse

[] goddess hurt liberty silly cancel invite cushion rely ostrich garden mind combine

[] nose spray moral disorder pear tip wave book blast color gift gift

[] chef picnic ancient bracket know police era young area defense will seek

[] party boost embrace clean nation expose knife axis squeeze animal certain lamp

[] height decorate dial super pet hope ahead ski indicate arm adult cinnamon

[] ranch nephew kind romance iron vanish pig onion cousin blur carbon imitate

SEE ALSO

- [How Whale Movements Affect Crypto Prices — BIP39 Seed Phrases \(June 24, 2026\) \(2026-06-24\)](#)
- [The Rise of Play-to-Earn Crypto Games: Revolutionizing Digital Entertainment — BIP39 Seed Phrases \(April 13, 2026\) \(2026-04-13\)](#)
- [what-is-infura-bip39-phrase_2025-11-12.pdf \(bip39-phrase_2025-11\)](#)
- [seed-phrases-2025-05-14-en.pdf \(2025-05-14\)](#)

Educational examples only. Randomly generated, not valid wallet phrases - never use them to store funds. Details: [bip39-phrase.com/security/](#)