

What Is a **Sybil Attack** in Crypto 03-11-2025:

A Sybil attack aims to take over a network using multiple accounts on an online or on-chain network of users. The goal is to corrupt the system and manipulate it to their advantage.

For instance, a Sybil attack can manifest as fraudulent voting in an election or online voting system. Alternatively, it could involve creating multiple social media accounts on platforms like X (Twitter) to spread falsified information, or even worse, to share malicious links designed to harvest users' confidential information.

In the case of public blockchains, Sybil attacks generally attempt to overpower the authentic nodes in a blockchain network. If successful, Sybil attackers gain the power to alter the blockchain, compromising network finality in the process.

To clarify, blockchain finality is the idea that, once written onto the blockchain, a transaction cannot be changed or undone. This concept is fundamental for transactions on a blockchain to be considered valid and trustworthy. For example, blockchain finality is necessary to prevent the same cryptocurrency from being spent more than once (double spending). Similarly, finality is also vital for guaranteeing that the outcomes of smart contracts and functions of decentralized applications are trustworthy and irreversible.

But before we talk about exactly how Sybil attacks can affect finality, let's discuss their history, which precedes the public blockchains of today.

The name "Sybil" comes from a 1973 book of the same name, that details the treatment of a woman – Sybil Dorsett – with dissociative identity disorder (DID), previously referred to as multiple personality disorder. Therefore, the name Sybil is a nod to the multiple identities that malicious agents create to carry out these attacks.

Computer programmer Brian Zill is credited with coining the term at Microsoft Research in the early 2000s. The term was further cemented by fellow Microsoft researcher, John R. Douceur, in a research paper written around the same time.

Notably, Douceur proposes in that paper that Sybil attacks are of particular concern in a practical P2P system without a centralized authority.

Seed Phrase Table

breeze pelican swift answer thunder shaft proud rate faith close start ready	bunker swallow loan salute gun bargain blue jaguar chimney ill excuse balance
genre layer axis this rural shuffle learn elite glimpse upon live melody	goddess such bless wagon damage exercise list security outer enroll ranch develop
total electric ride alter kidney laundry connect stick agree street toss nominee	purity forum husband bid scheme draw grocery atom ramp belt affair army
merry clock attend subway broken avocado include obscure blush cheap stairs enter	plunge age win badge improve purchase leave kingdom explain cat enact letter
buyer misery sort advice topic animal choose match box surround talent dice	riot boss occur tell nut speed idle select amateur term faint web
family tool task strike legal divorce enough soda hill armor raven hamster	claw skill ladder produce used submit stable reward pair book effort roast
december approve between crawl frame script tide wonder mosquito dose slice hurt	blouse drastic grass marine bleak false fire girl hour solar shoulder soup
power toward people castle maid convince measure sketch lend brand east wish	churn umbrella manage force symptom patient detail history clever exit acoustic movie
candy afraid decide intact omit sting cart universe sudden glow hazard bulb	inherit tree gallery bridge garage find confirm window require oblige finger train
draft record matrix lion battle merge turkey cupboard lawn crystal income cotton	tiger fruit sponsor lesson cruise parrot wave junk space attitude sign market
vintage situate column ocean scene cactus hungry globe retire apple victory code	method below camp loop calm soft grow switch frost fan story add
maple next fork enforce curtain angry depend peace what news over inspire	width dance debris firm easy eye assault account air swear wise inflict
paddle rely today eternal napkin latin valley exotic wedding sad mom kite	interest federal coast jungle shock myth cradle deliver name very grit trash
lazy call offer exile arrange nasty renew stool mouse beach erupt arrow	control video argue expect brick visual summer board grunt neck estate narrow
film entry bright demise logic venture wood leopard crane tent famous fine	satisfy drift size boy wine hello exhaust festival expose theory person lucky
truly squeeze toy virtual fiscal remove conduct fancy empower undo limb now	tomato message similar inform since liquid puzzle later fringe song refuse donkey
unveil tray neglect social loud canal time exist episode adult mansion siren	bullet brass empty tilt ship delay trend reject glance track diamond shed
damp panther upgrade master glory budget spatial runway cram step thought tissue	coconut super yellow slogan tank skull scrap example version worry pill success
room dress final involve mango believe among already about unique error iron	panda vague cabbage faculty wrestle drip sword audit obvious cable negative exclude
steak celery acid music surprise spell reveal must miss spider coach pass	section amazing picture anger waste jar glad sibling avoid dentist female private
oak short myself garment picnic punch load rifle question filter elephant corn	fatigue analyst ugly notice shell begin tragic weird will fever turn donor
oppose rich syrup chef put body beef city pretty voyage rival pulp	pioneer puppy saddle slot habit frown skirt mammal color dolphin shallow guide

decade champion where problem arrest lemon release unhappy volume child blame benefit	spawn favorite jacket large dragon acquire marble shiver fall paper slight park
staff crew odor trial consider sleep antique usage give mobile vacant shop	forget demand grab sense lecture polar sock foam tape betray artwork near
feature service arctic guess have accuse olympic still peanut club verify kitchen	spike twice horn weekend hurry august outdoor brave second artefact penalty orient
sentence essay monitor sunset goose steel keen screen tribe bottom use certain	muffin found inner gap please away gold distance perfect deal end various
inquiry camera either phrase palace ten wear earth oval spot teach asthma	stadium banner vocal tortoise humble hawk know silver rug doctor bar half
winter woman chalk annual apology sample surface stone risk inch advance lonely	replace light order wealth mimic cushion gift increase bone galaxy dynamic glove
old bounce phone prize design ensure laugh jeans bubble ceiling drink pig	sausage recycle frozen plug thumb biology year collect danger west vessel hybrid
enable lock thrive october scatter hunt silk middle govern regret crumble feed	couch tower plate place elevator clarify clap buzz buddy sure census practice
rookie wife salmon radar abuse stay promote style during face curve spare	token wash mixture cloth behind dwarf basket fiber joy armed moral soul
frequent genuine express emotion alert hockey defy amused unusual attract wrap pizza	word bread indicate receive economy dignity hub correct gorilla much dash wall
slow tooth black ability mushroom program laptop silly dumb siege daughter oil	meat rebuild sphere museum icon home fury idea civil sunny poet gentle
hip slam toe aspect whip portion heart wreck cabin team feel abandon	tumble seek float disorder gain note share quit project weapon okay stumble
snap tired giggle result nose brisk hollow right silent raw fluid whisper	rib cage stereo spin canoe survey guard wing stove pool crucial finish
index foster outside best item shrimp gossip climb denial path canvas extra	erosion case bicycle main diesel edit off random awesome segment option fly
twelve zoo retreat oyster pause comfort never lawsuit permit volcano peasant pigeon	tornado food run dinosaur catalog sustain drill cancel sister cruel mule height
happy couple dish pull illegal lottery immense session payment sing poverty auto	motor violin north cover knock fossil bomb twist grief seat life century
youth praise vanish prepare position sail gesture fix wide derive vivid announce	harsh theme rack gauge boil into limit ancient split barely behave view
energy honey solid hand utility pact oxygen voice relax venue absorb fabric	sorry craft slide drum salon emerge virus setup valid clump install notable
endless pink pluck regular area law visa spread you shoe swing luxury	afford kid host resource floor rough scorpion ball blossom imitate author decorate
swap able rhythm strategy six tail become popular evil photo palm test	casino scissors tenant mutual build lizard legend detect welcome hospital stamp suffer
genius fold little door exhibit better rocket flower travel bitter scare process	vital sight easily shift bike traffic major normal clip source typical vapor
jump suspect garden mountain print sea spoil observe page assist panic dismiss	verb pepper anchor egg chapter urge pride anxiety prison dog rain marriage
dust concert expand cost taste goat system worth quantum lunar alien echo	garlic rose any ignore region figure deposit velvet chuckle mail type dirt

minor apart online clown erase quiz good prefer target flight embark truck	coyote pave magnet injury state elbow struggle ecology price mix relief search
young ridge alcohol fresh pony balcony before absurd captain file boat immune	athlete despair trumpet wheat viable eagle sniff often science caught angle wisdom
spice milk soccer kitten differ artist enhance crouch weather beyond glass tobacco	bind one bring alone embody prosper world fade top quick cup bamboo
uncle season beauty recall romance lady neutral media act rail fragile fashion	combine rubber depth panel noise butter walk midnight excite bachelor device fit
proof need garbage cinnamon hint casual quote father license edge choice clean	remain resist then side dial move mind comic crater like arch save
settle dawn under hood hedgehog render adjust banana discover orange foot creek	tackle timber priority illness recipe flip bronze crunch infant onion evidence skin
orbit satooshi vote chest can brief minimum gas ordinary deer gaze farm	execute engage sand write glue strong brain slush post reflect current number
rescue birth mirror snow client keep enlist metal inhale bus allow level	else rotate antenna hover hard knee try squirrel inside transfer blood tip
cattle cricket crush wait student aerobic wolf dad duck fun warrior aisle	gloom rebel long coral asset soldier nest protect green knife push cross
reason throw isolate mean uncover tag pet fault repair visit era supreme	nerve raccoon zebra clinic chaos blur also soon lamp say crowd shrug
spring kit arm leg sport fiction flat initial above toast awkward trade	hero south road potato wild pupil truth noodle digital library snack want
veteran buffalo rude void soap town invest doll earn mystery always cake	grape manual dream forest loyal twenty warfare network square assume text property
luggage copper flock whale sweet noble dinner open owner company evoke robust	school drive motion pear zone dune million swim ask monster vehicle enrich
eight smart slim medal document expire check action oven moment scale shoot	slender gate ivory nephew achieve hair return average gadget pledge copy front
other radio slab reunion talk cash custom burst help grain fatal upper	ethics attack jewel wool general carpet clerk mad magic pipe friend member
nice tonight foil devote public tiny bag suit vicious stem flavor tunnel	absent deputy art royal flee ahead mechanic unfair blast shine cereal culture
essence impact mandate crash neither wire when innocent coffee rule cave circle	business daring scan february march first toilet pilot usual endorse rather ozone
sick planet pattern direct police amount ghost curious charge alpha shove actual	seven grant suggest congress great catch fox nurse night all roof report
monkey chat thank credit cause caution drama escape naive same remind head	hotel burger valve stuff review sheriff output stomach bird embrace present insect
obtain ankle lab toddler brush sadness chunk pencil arrive dry bean witness	sugar urban tourist someone hurdle shield actor wheel spray disagree unfold leisure
engine there donate mixed brother enjoy ribbon desk chief april deny tattoo	unaware fortune barrel pole boring bench hobby seminar three coin divide surge
airport they day harbor liar tuna winner kick cherry safe fantasy funny	machine route degree crop borrow fame trust response glare river flash left
admit mass sauce lobster element awake horse ritual click address treat baby	issue symbol range border reform unlock unit poem until extend menu ginger

torch work nature carry wage profit tomorrow fat pulse ripple opera gospel	organ round guitar sell pond melt scrub almost reduce hire salad display
few play stock chase repeat patch holiday nothing job original pudding alarm	envelope auction novel predict length smooth bulk hammer future glide subject parade
cliff domain key unable equal month base hope rabbit matter kiss double	pitch course hundred real exchange smile adapt walnut elegant spy basic pen
tongue image evolve simple judge trouble speak uphold alley nuclear around hidden	describe debate decrease cute crazy man juice ketchup possible another rigid critic
turtle dilemma reopen abstract capital robot coil just vault vibrant spirit chair	island update input sun gather giant brown rapid clutch morning crack mother
liberty equip wink maximum carbon because journey blind kiwi inmate grid bundle	enemy cheese fetch supply two skate group aware solution stand shadow eyebrow
cream desert agent jazz diagram primary fog inject gym humor salt addict	ski capable tuition minute patrol frog helmet cool lumber ring net actress
nation love blade object destroy gravity joke aim parent lava identify opinion	wasp divert true senior piano spoon purse decline mention own kangaroo crisp
diary once series game point zero entire dove secret hat swamp wrong	crime math material quarter access across office cloud wet labor grace giraffe
vacuum high raise wrist car useful accident title aunt trophy again flush	upset pistol snake tennis link solve smoke dutch weasel lunch cry duty
warm modify harvest cigar claim blanket sound rare lift language define quality	prevent miracle tube spend field only mistake early cargo cannon broccoli that
ice appear bracket resemble industry cement cycle country lens piece taxi mask	leaf table merit remember olive maze citizen indoor van village hole model
fence forward lyrics invite mercy chronic margin twin moon local more label	album party clay elder horror broom fee yard awful pottery insane pumpkin
change educate trigger employ category vast come autumn leader shy together clog	tone trap special rent physical depart stage flame pyramid unknown gasp human
chicken erode multiply impose busy make razor defense drop meadow ostrich trip	fish heavy fitness lake obey bonus common disease cube rice thing jelly
hen purpose vendor burden follow cook arena impulse water dizzy focus canyon	useless card ticket topple furnace scout bacon swarm seed memory health small
guilt core muscle lounge boost eager orchard orphan kind gown trick rally	cousin join uniform junior trim powder hold provide fuel way jealous cluster
diet huge exact excess flag race plastic mesh age toward glide upon	