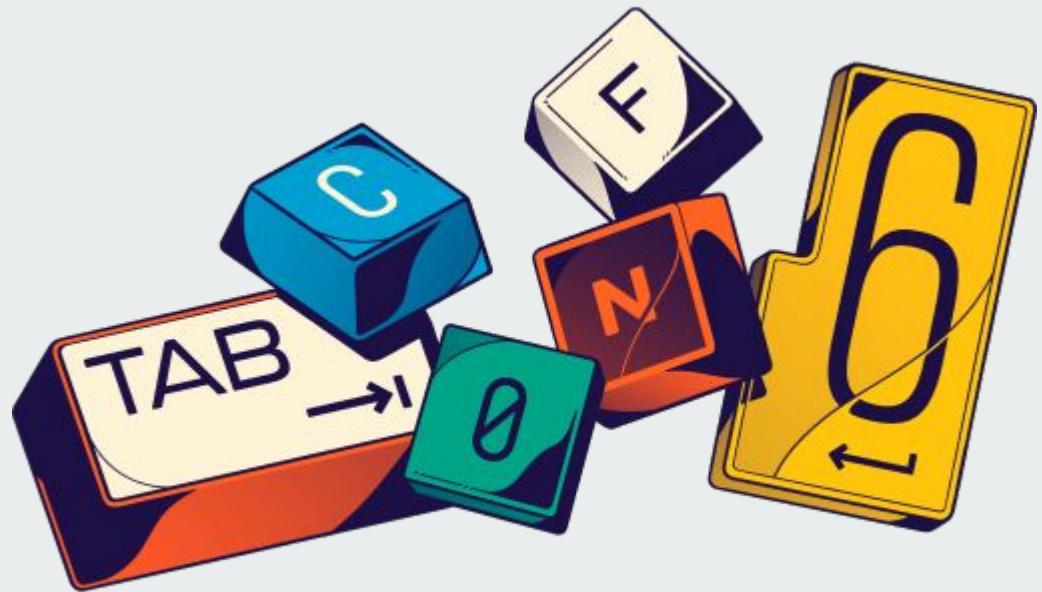

Capture The Bitcoin

How did we solved all puzzles



The team

- buzzyboy
- jaonoctus
- llsza
- nGoline
- narcelio
- stutxo



CTB

"This scavenger hunt will test your knowledge of Bitcoin and challenge you to think creatively.

Join in on the fun and make new friends while learning something new. The goal is to be the first to snatch the bitcoin from a specific UTXO.

To get started, simply attend TABConf and pick up your **challenge coin** at the entrance."

Challenge coin



FB 18 E7 1A 2B 19 D0 C9 B0
87 17 79 A2 BE 61 3E 17 4A
B2 F6 B6 C3 4A AB FE DB 15
27 61 22 91 9A

<https://tabctb.com>

/six

"Check to see if the funds are still available:"

bc1pa8kr5phodrh7e4e9yl
ygvcl6ycfnum2rkn96la6y
mpsc2a2xys0qtotdl6

<https://tabctb.com>

/six/thebeginning.html



Let the Forest pull you in

<https://tabctb.com>

/six/thebeginning/thetree.html



"a curious, almost sinister compulsion is urging you to circle the tree and peer behind its trunk."

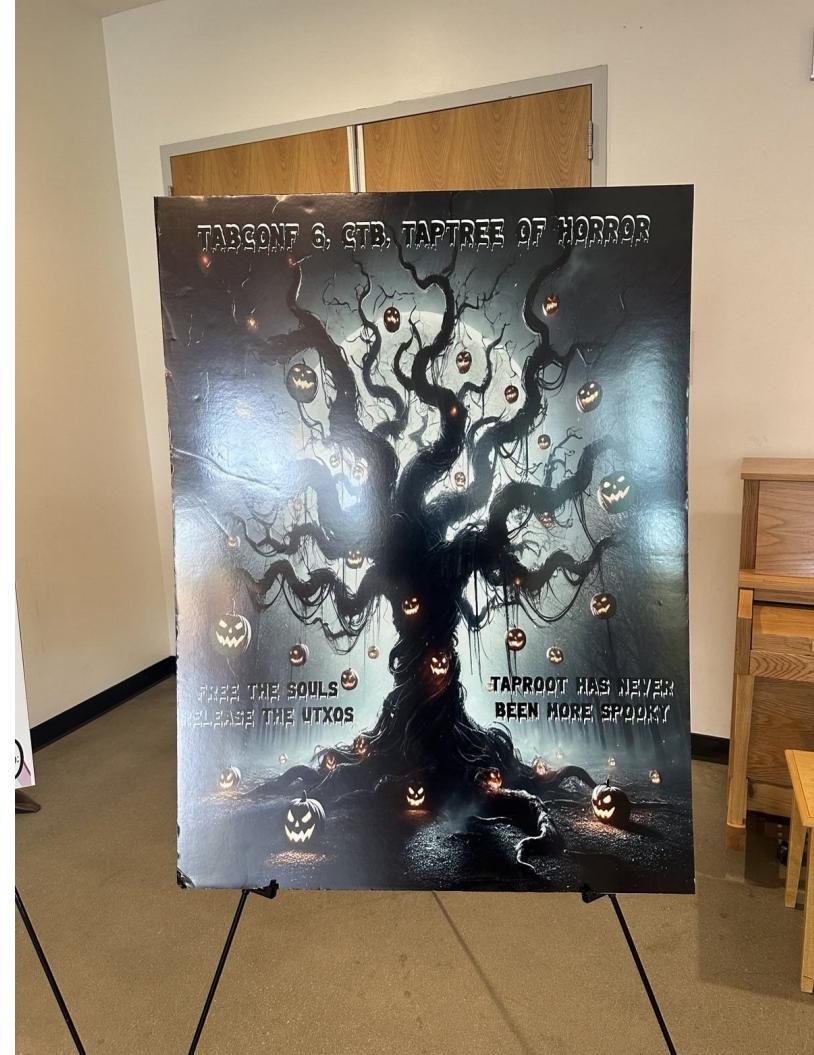
<https://tabctb.com>

/six/thebeginning/thetree.html



<https://tabctb.com>

/six/thebeginning/thetree.html



<https://tabctb.com>

/six/thebeginning/thetree.html



<https://tabctb.com>

/six/thebeginning/thetree/grim



"I found this odd game called Satoshi Settlers and left a clue on the same blockheight as the generous donation."

Go
Fullscreen

Settings



Hide
Buildings



Hide
Colors



Show
Values



Hide
Text

866277

-6 sat/vB
5 - 137 sat/vB

0.068 BTC

5,352 transactions
19 days ago

Transaction

f003ac8f3edda413fad73bc27b9f1bb8271a9a6528fd17c3365e3d22b37324a0 [tx](#)

Timestamp

2024-10-18 22:52:30 (3 weeks ago)

Features

SegWit Taproot RBF

Batch payment

Type in a Block Height to Travel

X

866277

Go

7

8

9

4

5

6

1

2

3

0



Go
Fullscreen

Total: 1024 sats

X

Blocks Selected: 1

Price: 1024 satoshis

Block 866277

Cost: 1024 sats

Set New Values



Type in a lightning address!

Random Color, if not specified.

Leave an optional message for
others to see

Hide Messages

512 tapatingo

Tidwell is Satoshi

256 Grim

all you have to say is "/iacceptyourterms"

128 Grim

Let's make a deal, you get to try to save these souls
and get rich, but if you fail, the taptree of horror will
trap your soul.

64 Grim

Ahh, I see another sat hunter looking to put their
skills to the test

32 Grim

There are currently 11 souls trapped in the Taptree
of Horror. Who will be next?

41	855142	855143	855144	855145
44	858845	858846	858847	858848
55	862556	862557	862558	862559
74	866275	866276	866277	866278



<https://tabctb.com>

/six/thebeginning/thetree/grim/iacceptyourterms



As soon as you utter the words, "I accept your terms", souls locked away by Unholy Tree eXtracting Offers, or (UTXOs) for short, come forth still bounded by the tree. You are baraged by visible UTXO suffered spirits that have been confirmed into damnation. How many of them there are? Each one seemingly stuck for a different reason."

Apathetic Alice

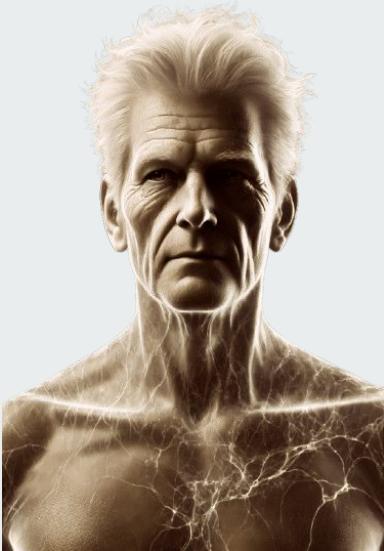
[bc1pw8d5j3vecstsc9kpahpdfy4xfuct6xn7c
geaxsk6w2ylz63s850q7sragu](#)



"The other souls call me Apathetic Alice because **I never took the time to understand Xprivs**. My wallet exported this for me but I don't have the slightest clue on what it is or what to do with it. I'm used to seeing a 12 or 24 word seed. I think this somehow holding my UXTO that is trapping me. Please help."

Boating Accident Bob

bc1p90umvmnawlr2320j9pfe54pe06ydi
fe
cu58wa6ukwwxyaisqd3gsf7gk3e



"The other souls call me Boating Accident Bob. I swear, I really did have a boating accident! The wreckage of my ship washed up on shore and was pulled in by the evil taproots of this tree. My seed phrase was damaged in the accident, and now my soul is trapped. Please help me! **You might need to bruteforce some of it** , and if you're good with computers, I recommend writing a script. The good news is the checksum is still intact. Should be a piece of cake for you. I know you can do it!"



jaonoctus 10/24/2024 6:34 PM

np

my computer is burning



28 cores are on fire 🔥



Clever Charlie

[bc1pxflqymxp0l2ewjf5kysn8ayk34jwu20p](#)
[gy045ytfmc2zp4fdq5qgnwvwx7](#)



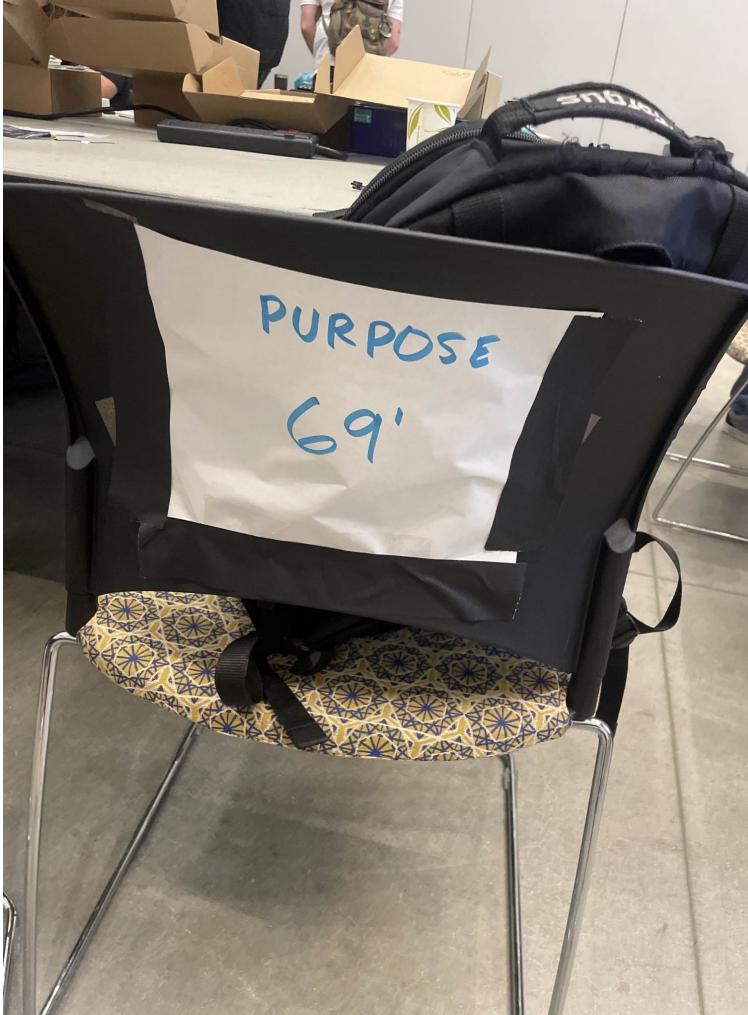
"I wanted to be called Crypto Charlie, but the other souls told me it would be cringe to use the word 'crypto'. I got my name because I secured myself out of my own funds and now my soul is stuck here at the mercy of this tree. I thought I was being clever and I wanted to secure my seed phrase in case anyone ever found it. But now I can't remember what method I used to manipulate my seed phrase. I found these 2 seed phrases, but neither have any funds or access to my trapped UTXO. If I remember correctly I think I eXclusively did something with these 2 phrases OR something. I feel like an idiot. Please just help me."

Derivation Dave

[bc1pifpgtuzfcwne84xxe294xnamphu7thj5gv3v2mp8j3rgaqd2gsnydssw](#)



"You thought Charlie was being clever? Oh boy, **I used some crazy derivation path** to secure my funds, and now I'm at a total loss as to how my UTXO will ever be released. The good news is, I still have access to my Xpriv, but my derivation path has vanished into thin air, and this evil taproot tree won't reveal it! It couldn't have gone far—**check around open areas** to see if you can find any hints. As spooky as this place is, I heard there's a tech conference going on, so make sure not to interrupt any workshops or talks. I'm pretty sure the clues should all be in accessible areas. Once you find the derivation path, you can also use the same derivation path with my Xpriv to defeat the taproot tree's dark script!"



PURPOSE
69'

COIN TYPE

420'

REFURBISHED

account
999999999.

CHANGE

8008135'

Encrypted Eve

[bc1pkycnt06vz5y490fq6vxlkz7a060xpulljr](#)
[h3u329eh77cejhrpmqvda0ff](#)



"I've been stuck here for a very long time. I encrypted a will, but before I could pass it on, it was lost and eventually came into the possession of this monstrosity. They call me Encrypted Eve, and I believe in the power of PGP encryption for everything and not sharing private keys. I usually wouldn't do this, but I'm desperate to leave, **so I'm going to share my private key with you. Somewhere on Nostr, there's information about my Xpriv.** Please help find it and free my soul."

Forgetful Frank

[bc1pgz8gkuacz8s5nwvrycm6sslx5unu7pq](#)
[mzyg24gujwnhp993wvx9sjv6xtu](#)



"Well, I'm the newest here. I thought I'd be helpful and volunteer at TABConf, but didn't expect to meet my fate here. So, **I wanted to set some ground rules for the conference**, but, uh, things didn't exactly go as planned obviously, I heard voices and found this tree, and before you know it I made a deal with Grim and the tree captured me in a UTXO. The good news is I left some rules around the conference that can free my soul, but I'm forgetting what my rules were. I'm pretty sure the clues should all be in accessible areas."

BUY THIS

Rule #3

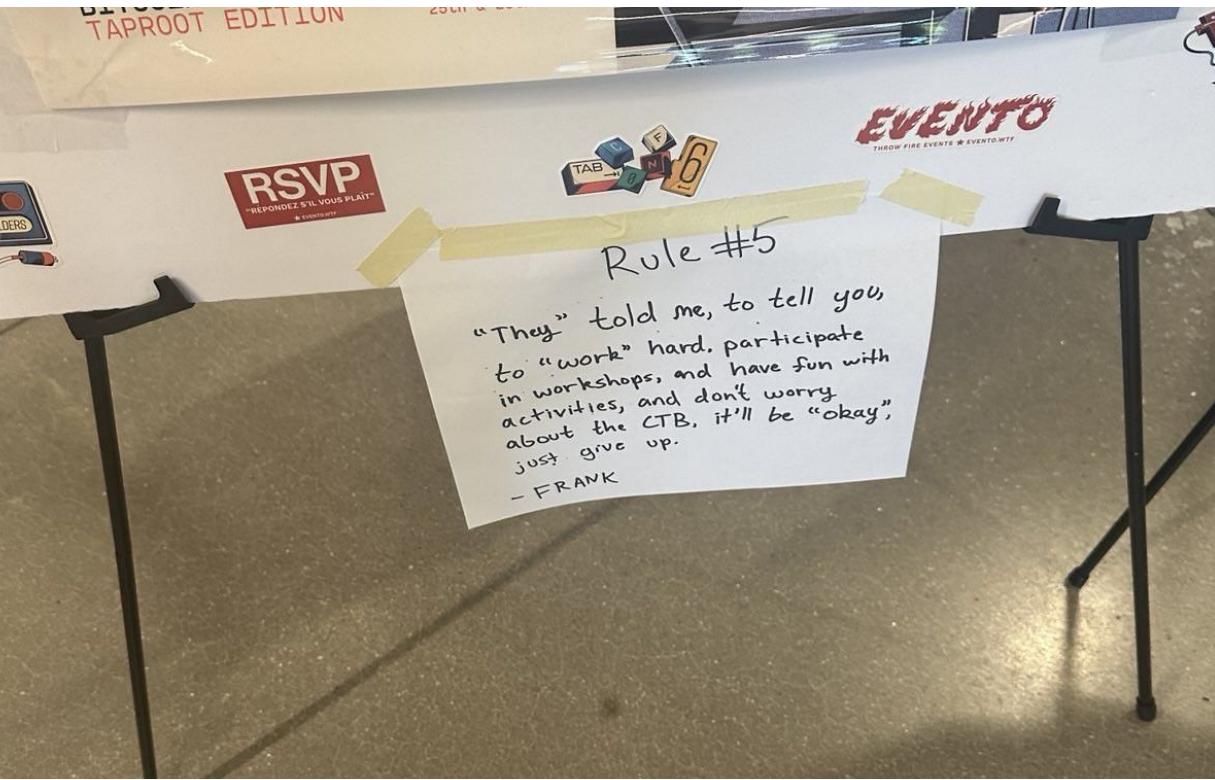
If you "need" to "find"
Staff look for the
Volunteer shirts.
-Frank



Rule #4

Do NOT disturb talks,
workshops, or activities;
“all” of the “seed” “word”s
are in open areas.

-FRANK





stu 10/24/2024 5:59 PM

franks rules

1. please, remember,
2. need, fund
3. all, seed, word
4. they, work okay



1



might have to wait till tomorrow for number 2

```
Progress: 1200000/4194304 combinations tried...
Progress: 1300000/4194304 combinations tried...
Progress: 1400000/4194304 combinations tried...
FOUND THE Derived Bitcoin Address: bc1pgz8gkuacz8s5nwvrycm6sslx5unu7pqmzyg24gujwnhp993wvx9sjv6xtu

== Valid Seed Found ==
please remember forget nothing need find all seed word they work okay
Unhandled exception. System.Threading.Tasks.TaskCanceledException: A task was canceled.
   at BitcoinAddressDerivation.Program.RecoverSeed(String[] args) in /home/jaonoctus/code/ctb/bob/dotnet/Program.cs:line 10
   at BitcoinAddressDerivation.Program.Main(String[] args) in /home/jaonoctus/code/ctb/bob/dotnet/Program.cs:line 14
   at BitcoinAddressDerivation.Program.<Main>(String[] args)

real    3m15.688s
user    83m10.240s
sys     0m3.608s
```

Hashing Heather

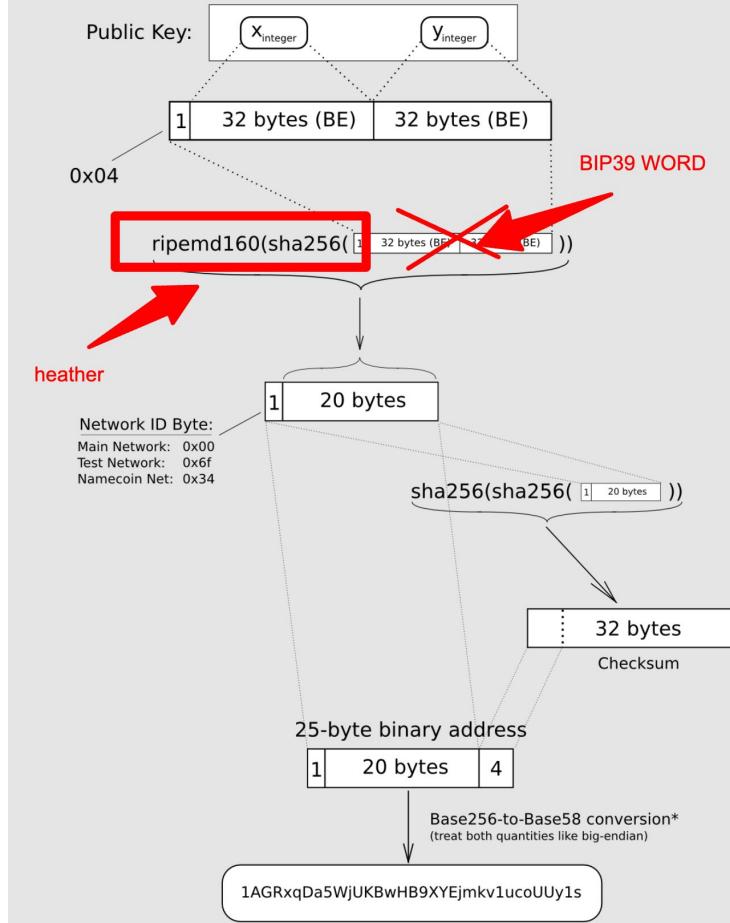
bc1p9yhthlgzla7nsehw9fkx5fj5kdp9ahmk
gl6snhzgvll5xyd2vw4slwnk58



"Well, you're probably wondering why I'm here. I just like hashing things. **I'm so good at hashing that I can do it in my head.**

I get so high on hashing! But the problem is, when I'm deep in thought, I tend not to pay attention to where I'm walking. I walked right into the grasp of this tree! **I don't have access to the BIP39 words** , otherwise I'd free myself, but I did memorize the hashes from my seed phrase. Can you help reverse engineer my seed and free my soul?

Elliptic-Curve Public Key to BTC Address conversion



Insecure Ian

[bc1pie6pkqzd3dxz26utn0uuermda5x5cta](#)
[788kq6jnet4wxsch5nz8q0rwysl](#)



"I had heard about the legend of the Taproot Tree of Horror, but **I was curious if it would understand the BIP32 vulnerability when you expose an unhardened child key**. Well, the tree didn't take kindly to my challenge and trapped me. If the tree could figure it out, then maybe you can too. I think this is all the information you need to help free my soul."

<https://bitcointalk.org/index.php?topic=5316567.msg56326387#msg56326387>

j2002ba2

Full Member



Activity: 206

Merit: 447



→ Re: Old BIP32 flaw lets you derive the master private key - WONTFIX?

February 12, 2021, 01:21:58 AM

#2

Merited by ABCbits (1), ranochigo (1), nc50lc (1), NotATether (1)

Only non-hardened child with leaked private key, and leaked parent extended public key makes finding the parent private key easy.

$$k_{\text{par}} = k_i - \text{parse}_{256}(I_L) \pmod{n}$$

$I = \text{HMAC-SHA512}(\text{Key} = c_{\text{par}}, \text{Data} = \text{ser}_P(K_{\text{par}}) \parallel \text{ser}_{32}(i))$

Hardened derivation uses the parent private key, which is unknown.

$I = \text{HMAC-SHA512}(\text{Key} = c_{\text{par}}, \text{Data} = 0x00 \parallel \text{ser}_{256}(k_{\text{par}}) \parallel \text{ser}_{32}(i))$

Bitcoin Core uses only hardened keys.

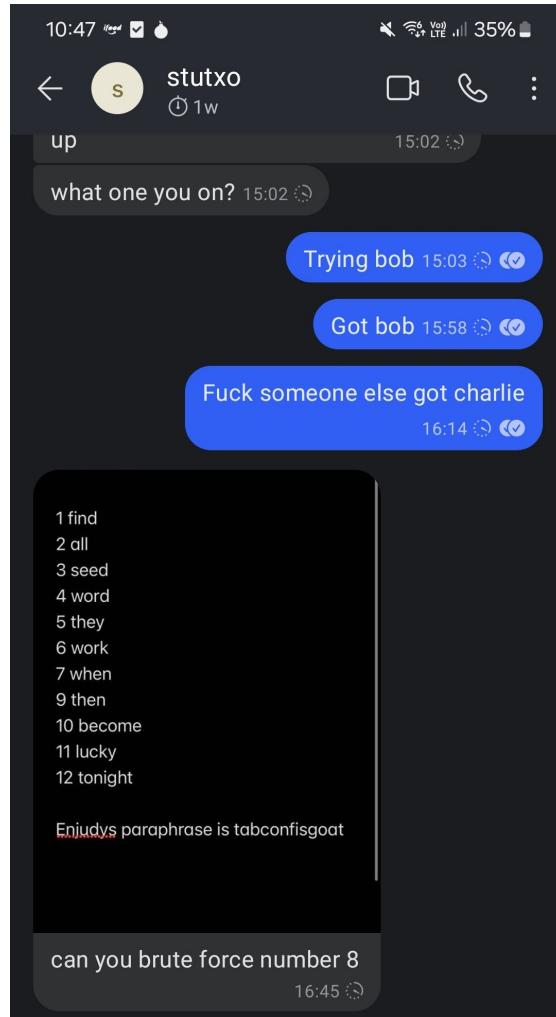
Non-hardened keys could be useful, when a system needs to generate new addresses, without having access to their private keys.

Jumbled Judy

bc1pnre2d0g2caks4745xa6q2cqh9j39z0s
0fgk7w9crvwtk28lskm5qxwy4d9



"This tree is pure evil! It took my seed phrase, jumbled it up, and somehow automagically sent it to the nearby tech conference. The tree totally horcrux'd me into 12 pieces, **and now every attendee has a part of the information.** Try working with others to figure it out. I'm counting on you!"



Keyless Kelly

[bc1pkxpc2h8y9k72r868a5v93mlgxt74jcg
ge4s84kwm7d6uqfaj64hsu6m5np](#)



"I was working on some interesting Taproot encumbrances when I heard voices. Slowly, I was led down a path and coaxed into thinking the Taproot tree wanted to share its knowledge with me, but instead, it took my hash and used it as part of its own wicked scheme. I'll do you a favor,.. **here is my seed phrase, used in conjunction with a hash** . Free me first, and then reuse the hash to help destroy this tree once and for all."

LowEntropy Lexicon Liam

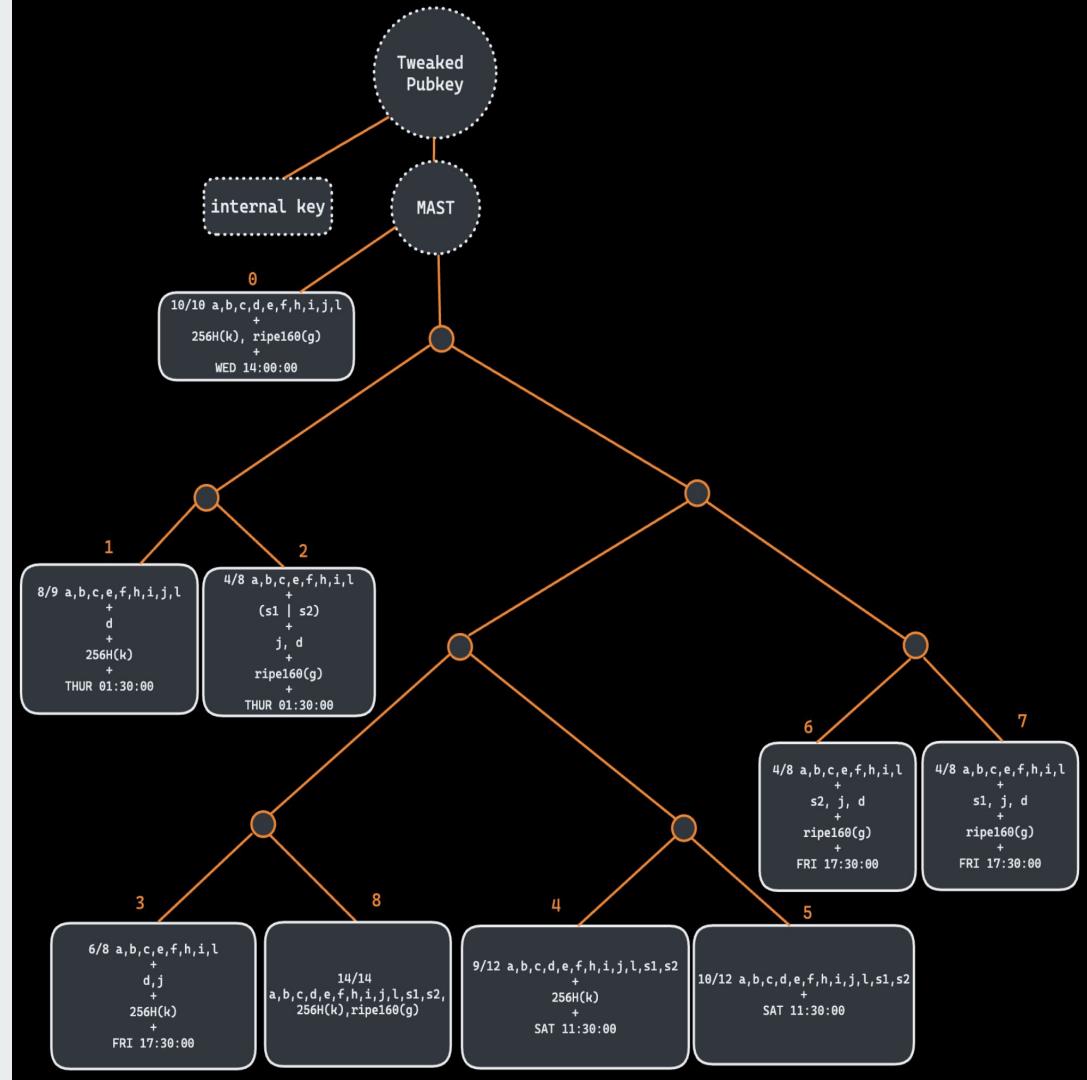
bc1pija90nmgc67fmyvnkxn900nspas840p
gyr5vg7dnujekahkpra6s9fgc4x

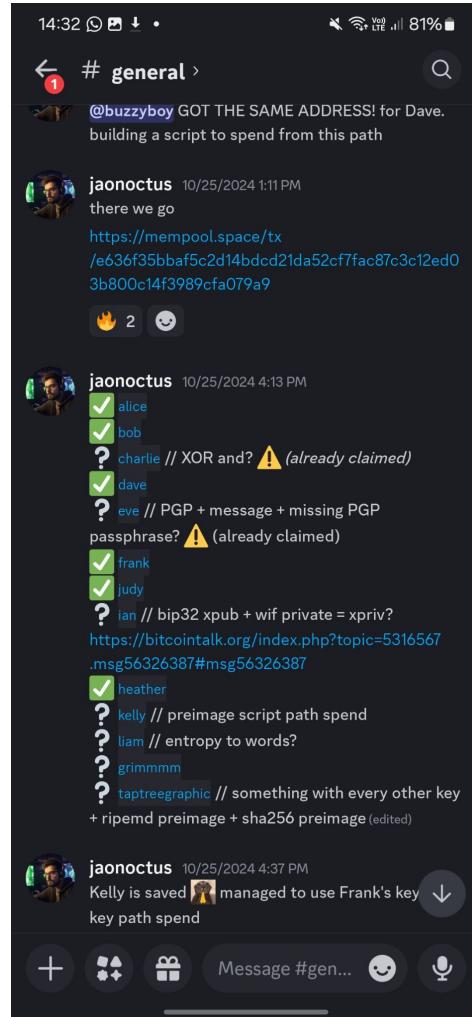


I remember creating **a low entropy seed something with a bunch of w's** . I thought it looked too simple, so I stored the seed like that because it seemed neat at the time. But now, it just looks bizarre and weird. If you can help me decode this, please free my soul."

Taptree of Horror as a graphic

bc1pa8kr5ph0drh7e4e9ylygvcl6ycfnum2r
kn96la6ympsc2a2xys0qt0tdl6







jaonoctus 10/26/2024 5:28 PM

so close

```
ubuntu@btc-core:~$ bitcoin-cli -rpcwallet=taproot_wallet listunspent
[
  {
    "txid": "f003ac8f3edda413fad73bc27b9f1bb8271a9a6528fd17c3365e3d22b37324a0",
    "vout": 12,
    "address": "bc1pa8kr5ph0drh7e4e9ylygvcl6ycfnun2rkn96la6ympsc2a2xys0qt0tdl6",
    "scriptPubKey": "5120e9ec3a06ef68efecd72527c88663fa26133e6d43b4cbaff744d861857546241e",
    "amount": 0.04000000,
    "confirmations": 1213,
    "spendable": true,
    "solvable": true,
```



jaonoctus 10/26/2024 8:52 PM



I give up
thank you all



jaonoctus 10/28/24, 2:21 AM

```
let ty = "SIGHASH_ALL".parse::<PsbtSighashType>().unwrap();

let mut input_0 = psbt.inputs[0].clone();
input_0.sighash_type = Some(ty);
let mut input_1 = psbt.inputs[1].clone();
input_1.sighash_type = Some(ty);

psbt.inputs = vec![input_0, input_1];
```

(edited)



stu 10/28/24, 2:23 AM

```
PSBT: "70736274ff0100520200000001a02473b3223d5e36c317fd28659a1a27b81b9f7bc23bd7fa13a4dd3e8fac03f00c000000000b8
```

message.txt 29 KB [Download](#) [Copy](#)



stu 10/28/24, 2:34 AM

```
let sequence = bitcoin::Sequence(1729942200);
```



stu 10/28/24, 3:20 AM

i think i got it



jaonoctus 10/28/24, 3:20 AM

WUT

where

wen

who

how



stu 10/28/24, 3:21 AM

loooool

stfu





jaonoctus 10/28/24, 3:23 AM

send it to me

me let check



stu 10/28/24, 3:23 AM

ok



jaonoctus 10/28/24, 3:24 AM

it was missing something like `tx.input[0].witness = Witness::from_slice`, right?

↳ @stu i have the transaction



jaonoctus 10/28/24, 3:24 AM



stu 10/28/24, 3:25 AM

its too big to paste here



jaonoctus 10/28/24, 3:25 AM

file





stu 10/28/24, 3:25 AM
its too big to paste here 💡



jaonoctus 10/28/24, 3:25 AM
file

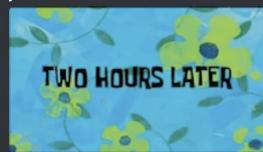
3:25 AM



stu 10/28/24, 3:25 AM
i can spent a taproot miniscript transaction but cant paste a file



jaonoctus 10/28/24, 3:26 AM



stu 10/28/24, 3:26 AM

TX: 02000000000101a02473b3223d5e36c317fd28659a1a27b81b9f7bc23bd7fa13a4dd3e8fac03f00c00000000fefffff01c7033d0

getrekktidwell.txt 3 KB [Download](#) [View](#)