

# **How To Create Time-locked Transactions** with Bitcoin (Free Bitcoins Inside!) (1)

In this guide I will be explaining how to easily create a time-locked transaction on the Bitcoin blockchain. Time-locked transactions could be seen as a form of primitive smart contracts that allow you to create transactions that cannot be spent before a certain date or block height.

We will be using a local copy of the website <u>Coinb.in</u>, which you can download through Github. I strongly recommend you to make sure your computer is free from malware before you continue.



Before We Start

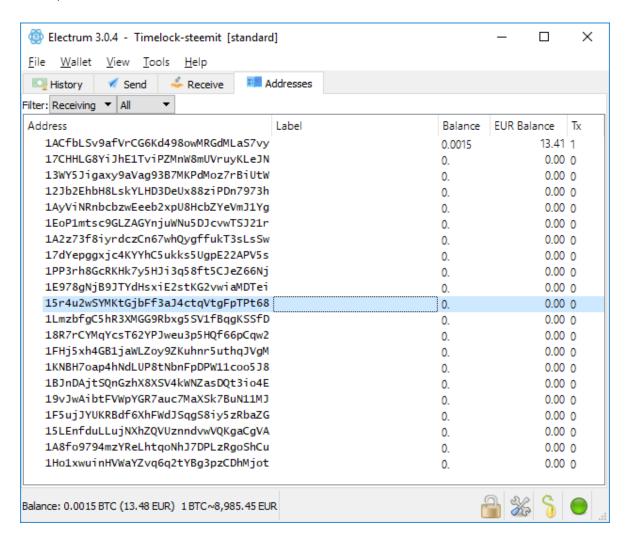
It's recommended that you create a new Bitcoin address, we will be using the public and private keys of this address to create and unlock our time-locked transaction.



I've used <u>Electrum</u> to generate a new address, I assume that this process is easy enough that it doesn't require any further explanation.

You can see that I've funded this newly generated address with 0.0015 BTC. You can claim this amount after the timelock expires (minus fees). This way I also don't have to worry about showing you the private keys and it gives you hands on experience with claiming a time-locked Bitcoin transaction.

#### Newly Created Bitcoin Address:





### **Creating Vanity Address inside ADDRESSKY.com.**

Vanity addresses, or vanity addresses, are cryptocurrency addresses personalized and created respecting a series of parameters given by the users of said addresses. This with the aim of making them more personal and easily identifiable, but without giving up the security they provide.

En Bitcoin you can find different types of addresses, including custom addresses, also known as Vanity Address. The vanity addresses or Bitcoin vanity addresses they are normal addresses, with the same functionality as any other, they only contain a custom alphanumeric character string, a message or a special word for its owner.

The standard addresses that are generated in the wallets are composed of randomly ordered alphanumeric characters, without any special order or meaning. However, today, there is the ability to personalize these same addresses, and add a special touch, either through a name, a brand, a special word or a slightly more complete message.

EXAMPLE Vanity Address from <a href="https://www.ADDRESSKY.com">www.ADDRESSKY.com</a>





#### **TECHNOLOGY**

EXAMPLE ADDRESSES BITCOIN.

1Googled9Uj5P3RzzLxwXvKjQGe5XSpjgL 1Amazon2fFxh9JmkqVVucyASRYgaPtir7e
1HuaweiETqZrUy3AebJ4px27yrZQXzbRZk
1DELLfLuYXJJLAQaecEAZJVTZDXh6vx8DP
1inteLoJMATv2aao7FfYyuK1LMi8Mdqoe
1YahooHHV4zAsDSxJsnkVs5f58mjL8cHP
1SAPxQRW6NdGG8RHxzj3ux5DbAqBw1HyP







#### **FEELINGS**

EXAMPLE ADDRESSES BITCOIN.

1**SmiLe**CALwLKsijbyjWqwaYP1jrvfBrTa

1**Cry**5khFozgkqkzKHVhoPLMf8XAv4HeJcN

1**Love**394jyAgtEgHyzmCk16T9ZUYmJZyBe

1HatezY6izYPZUk9ZHPVDrJqBjUCSR6YiU

1**Sad**pw5pyy6mRpEiQTBTXvBaYMvVZQbPm

1HappysrZWYWGB7vZ9MQoFHra8UwtfjpxR





## You can make your request to the email inside www.ADDRESSKY.com

Check service prices at <a href="https://www.ADDRESSKY.com">www.ADDRESSKY.com</a>

We received your request, in this order you must include the following information.

#### Send Email:

- 1.- Name of the user or owner.
- 2.- Bitcoin reference deposit (Deposit address for tracking).
- 3.- Name of the address you have chosen.

To: order@addressky.com

Check service prices.

www.ADDRESSKY.com



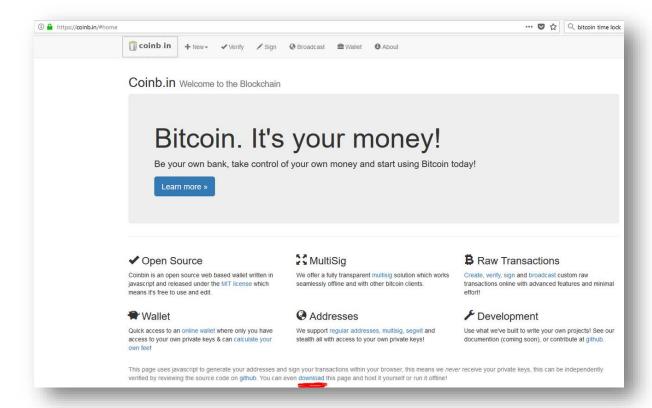
# 1. Creating time-locked address & sending your coins

#### Download a local copy of Coinbin

Go to <u>Coinb.in</u> and download the master branch of their website through Github. I'm not going to link the actual download here, because it's very important that you know you're downloading from a trusted source.

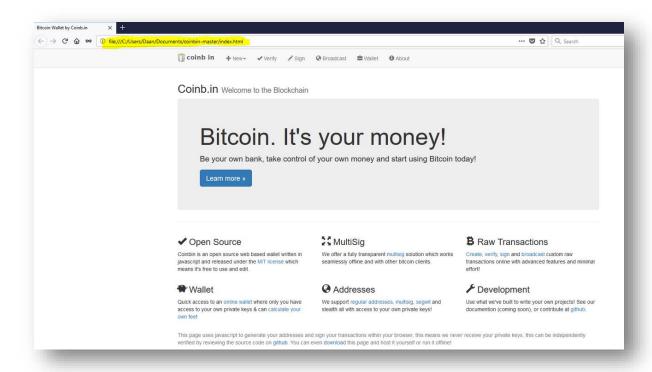
Extract the archive and open the index.html file in your browser of choice. You're now running a local copy of the coinb.in website.

#### Download Coinbin Master Branch:





#### Extract the archive and open Index.html:



Now we're working with a local copy of the Coinb.in website, check the address bar to be sure.

### **Address Time-Lock**

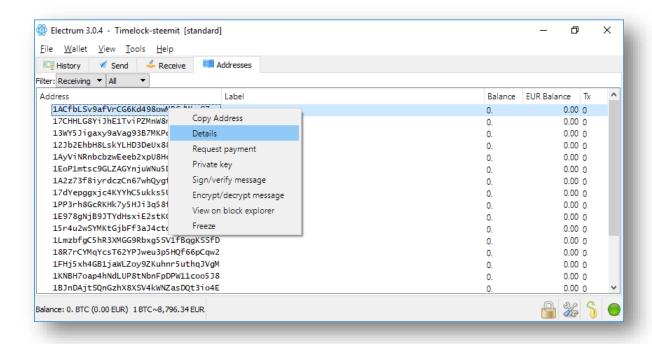
Make sure that you're using a local copy of the Coinbin website (as shown above) and create your time-locked address. Click on: 'New' >> 'Time Locked Address' in the top menu.

Fill in the public key of the address you've created with Electrum and enter either a date or block height by which the transaction should be unlocked.

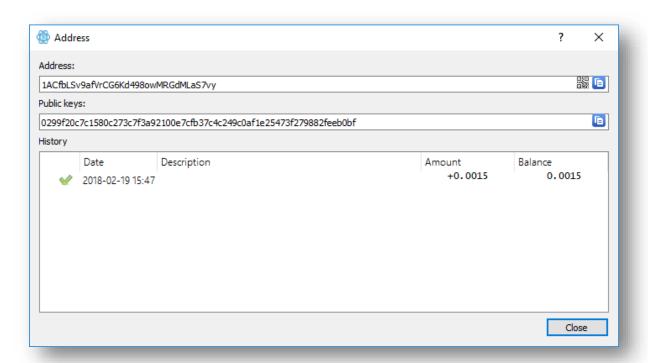




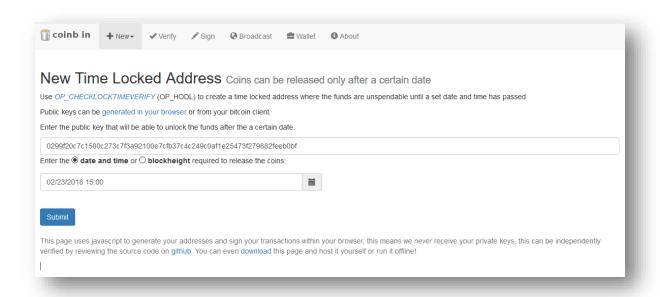
#### Where to find your public key:



#### Public key:



#### Enter your public key and set date or block height on Coinbin:



### These coins can't be spend before 02/23/2018 15:00

#### Submit

Make sure you've filled everything in correctly and press the 'Submit' button.

Now you'll see a newly generated address to which you can send Bitcoin. Any coins you send to this address can only be redeemed after a certain date or block height has been reached.

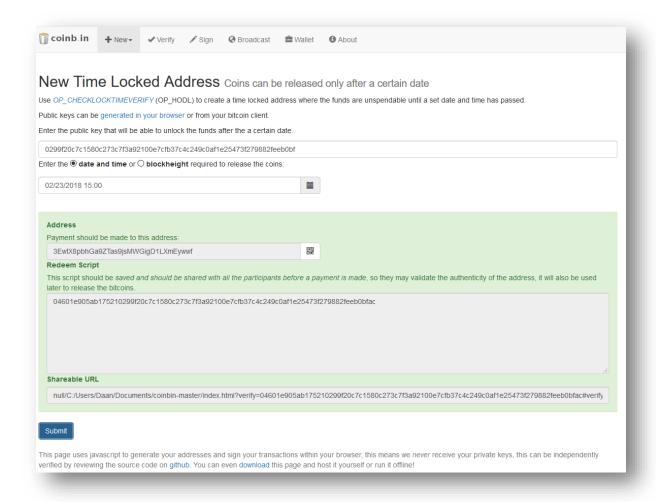
You will also see a redeem script, you should save this or otherwise you won't be able to redeem your coins afterwards.

#### Redeem script:

04601e905ab175210299f20c7c1580c273c7f3a92100e7cfb37c4c249c0af1e25473f279882feeb0bfac

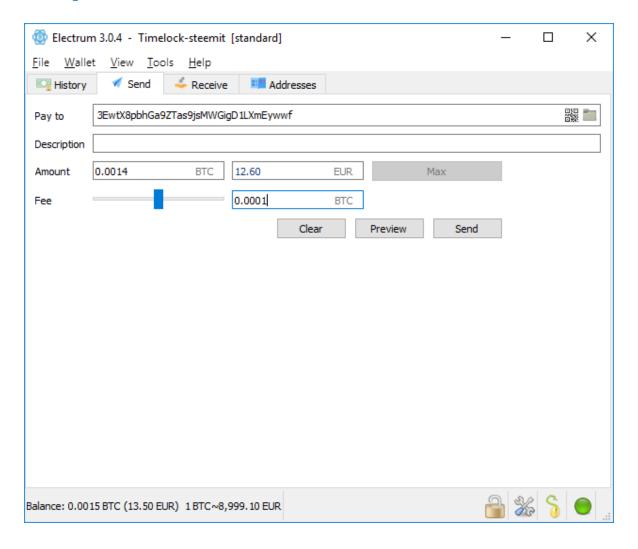


#### Payment address & redeem script





#### Sending the transaction:



That's it! You've now successfully locked your Bitcoins, they can't be spend before 02/23/2018 - 15:00. If you want to claim the coins I've used in this example, be sure to read the next section.



### 2. Redeeming your coins

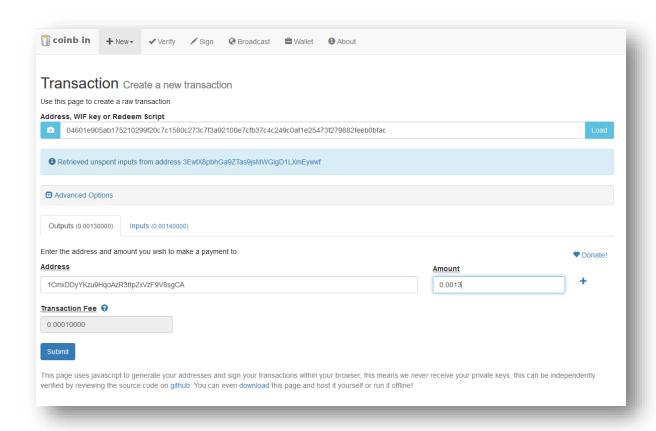
#### Create a new transaction

Again, only use your local Coinb.in copy.

Go to 'New' >> 'Transaction'

Paste your redeem script and click on 'Load'.

After pressing 'Load':



Enter the address you want the coins to be transferred to in the 'Address' field. Use another address than the one you've used to create this time-locked transaction.

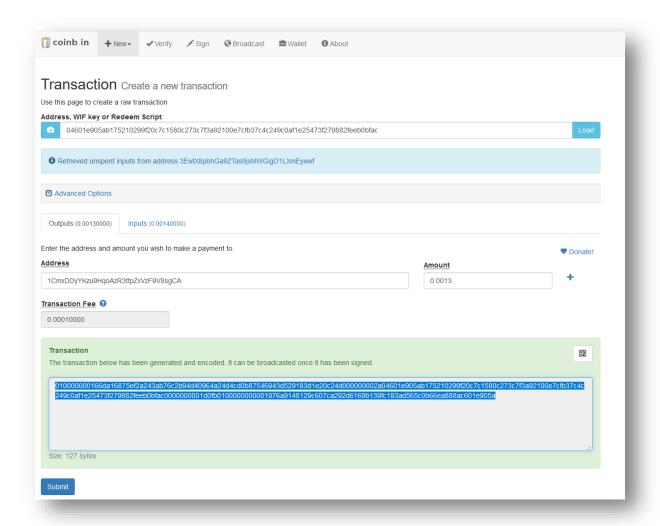


Fill in the amount of Bitcoins you want to send. Use only part of the balance, the rest will be used for fees. In this case, you can fill in 0.0013 BTC, so 0.0001 BTC will be used as a fee.

Click 'Submit' after reviewing everything you've put in.

Now you should copy the raw transaction output as seen below.

Raw transaction output:

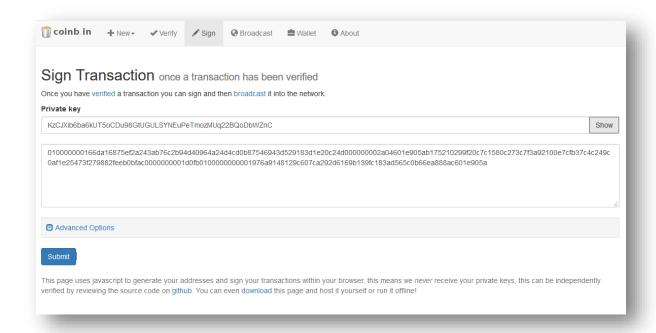


#### Output:

010000000166da16875ef2a243ab76c2b94d40964a24d4cd0b87546943d529183d1e20c24d 00000002a04601e905ab175210299f20c7c1580c273c7f3a92100e7cfb37c4c249c0af1e254 73f279882feeb0bfac0000000001d0fb010000000001976a9148129c607ca292d6169b139fc 183ad565c0b66ea888ac601e905a



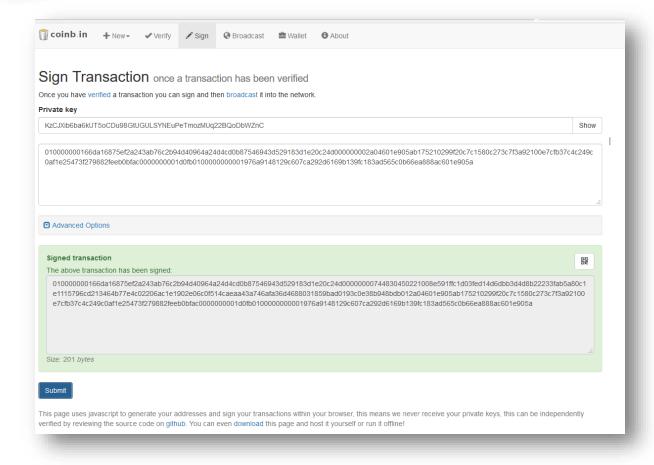
After you've copied the raw transaction output, you should click on the 'Sign' tab and fill in the private key of the address used to create the time-locked transaction together with the raw transaction output. This is why we created a completely new address, you should never input your private keys unless you will not be using that address again.



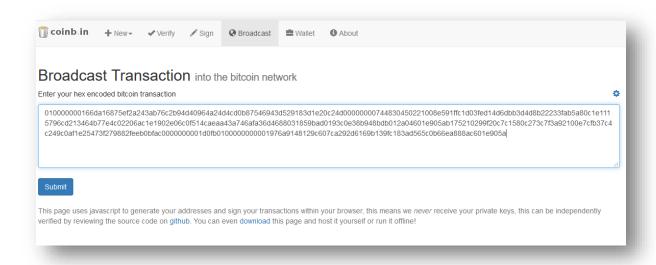
Private key: KzCJXib6ba6kUT5oCDu98GtUGULSYNEuPeTmozMUq22BQoDbWZnC

Now you'll receive a signed transaction hash that you can broadcast to receive your time-locked Bitcoins.



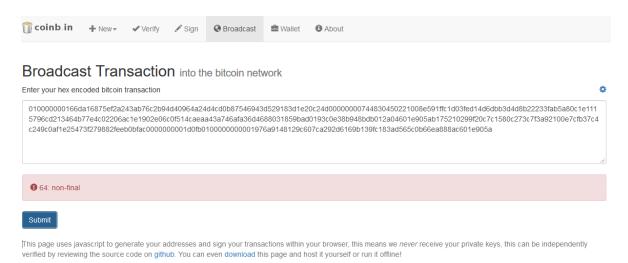


Finally, go to the 'Broadcast' tab to paste the signed transaction. The coins will only be sent if the date or block height of the time-locked transaction has expired.





You'll get an error like this when you try to broadcast before the time-lock expires:



### Grab your coins!

Within this message I've made it possible for you to claim my time-lock worth 0.0014 BTC (minus fees). All you need to do is enter the redeem script and private keys, which I've shown in this post.

#### TL;DR

#### To create the Time Locked Address:

Go to Coinb.in;

Click on 'New' >> 'Time Locked Address'

Enter your public key (Of the address you created with Electrum)

Enter date + time or block height of when you want your Bitcoins released

Submit

Save the Redeem Script

Send the bitcoins you want to keep locked to the Address generated.

## addres

#### www.ADDRESSKY.com

Spend your coins after the time-lock expires.

Go to Coinb.in

Click on: 'New' -> 'Transaction'

Paste your Redeem Script and click Load (it shows every input available to be spent)
Paste the address you want to send the coins to at the "Address" field and the amount in the
"Amount" field. The remaining funds will be used as fee. E.g. If your address has
0.015BTC, you can put 0.0014BTC in the
"Amount" field and the fee will be 0.0001BTC (Making 0.0015 in total)
Press 'Submit' and copy the raw transaction

Click on the "Sign" tab

Paste the private key from the Electrum address you created

Paste the raw transaction (you've gotten this from the 'transaction' page.)

Press 'Submit'. Now you've received a 'signed transaction' script

Click on the 'Broadcast' tab and paste the signed transaction script

Transaction is sent! Or not, if you've made an error or if you try to do this before the time-lock has expired.

#### Reference.

- (1) <a href="https://steemit.com/bitcoin/@daan/how-to-create-time-locked-transactions-with-bitcoin-free-bitcoins-inside">https://steemit.com/bitcoin/@daan/how-to-create-time-locked-transactions-with-bitcoin-free-bitcoins-inside</a>
- (2) www.Coinb.in
- (3) www.ADDRESSKY.com