

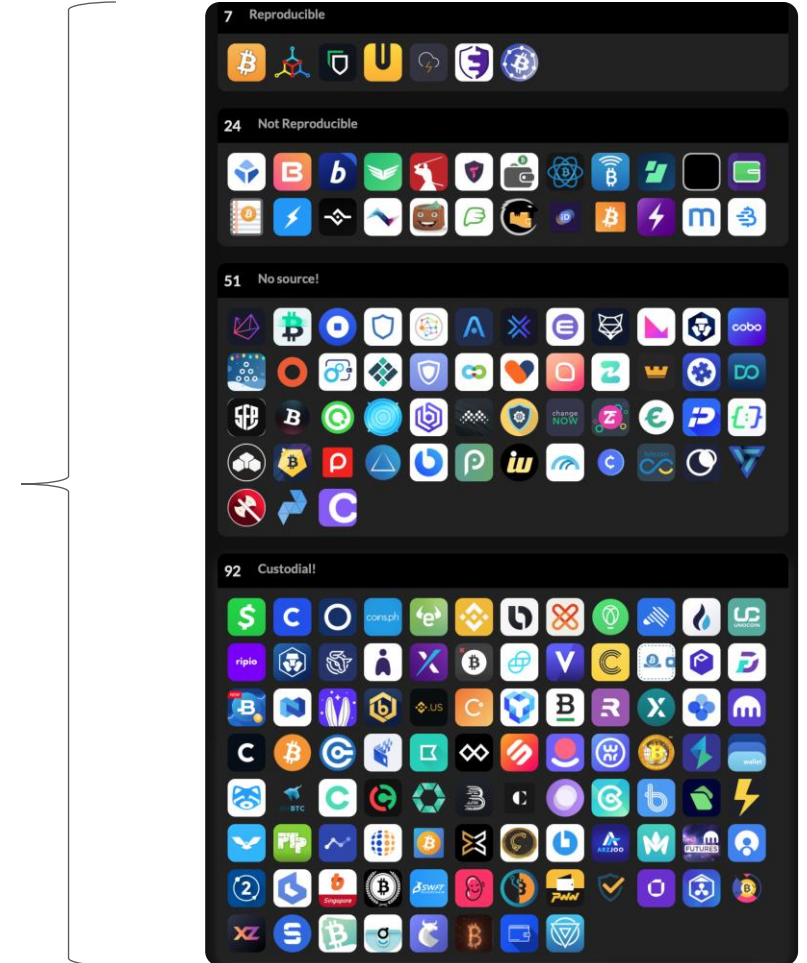
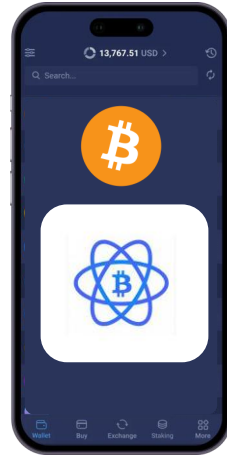


BitcoinBadger.net

7: Bitcoin wallet types









receive bitcoin



send bitcoin

receive transaction



send transaction



receive bitcoin

create key

show key address

connect to network

verify transaction



receive bitcoin

create key

show key address

connect to network

verify transaction

send bitcoin

create transaction

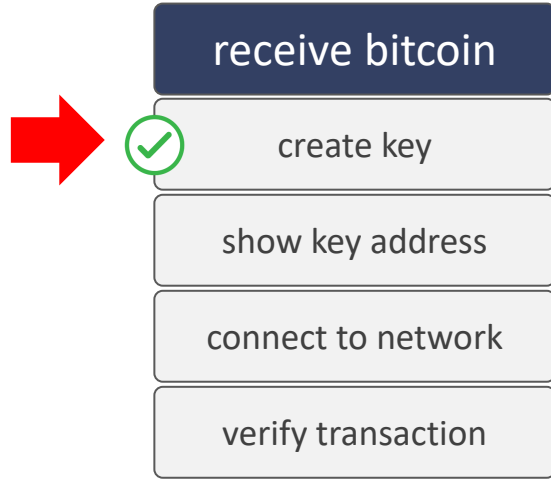
sign transaction

connect to network

broadcast transaction

verify transaction





receive bitcoin



create key

show key address

connect to network

verify transaction



Seed	
Master private key	
XPRIV	
Type	
Currency	
Wallet number	
Key number	
Private Keys	

receive bitcoin



create key

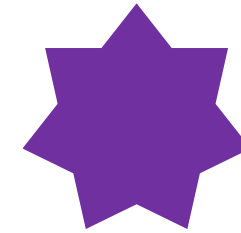
show key address

connect to network

verify transaction



Seed	
Master private key	
XPRIV	
Type	
Currency	
Wallet number	
Key number	
Private Keys	



receive bitcoin



create key

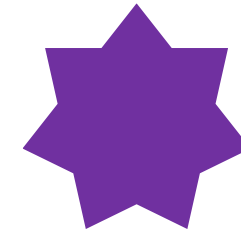
show key address

connect to network

verify transaction



Seed	
Master private key	
XPRIV	
Type	
Currency	
Wallet number	
Key number	
Private Keys	



receive bitcoin



create key

show key address

connect to network

verify transaction



Seed	
Master private key	★
XPRIV	★
Type	
Currency	
Wallet number	
Key number	
Private Keys	🔑🔑🔑

```
110101000111100101
100011010001010110
011110001001100010
011000000111001001
101111111100101101
010011010110000111
011000110101001110
101011110000111100
001010011000110101
100101111111001100
110000101101111011
0111001100111
```

receive bitcoin



create key

show key address

connect to network

verify transaction



Seed	
Master private key	
XPRIV	
Type	
Currency	
Wallet number	
Key number	
Private Keys	

1 RESULT.....
2 INDEX.....
3 DECLINE.....
4 PILL.....
5 RICH.....
6 HEART.....
7 TOAST.....
8 NASTY.....
9 CHOICE.....
10 CONSIDER.....
11 AWARE.....
12 CANNON.....

receive bitcoin



create key

show key address

connect to network

verify transaction



Seed	
Master private key	
XPRIV	
Type	
Currency	
Wallet number	
Key number	
Private Keys	

1 RESULT.....
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receive bitcoin



create key

show key address

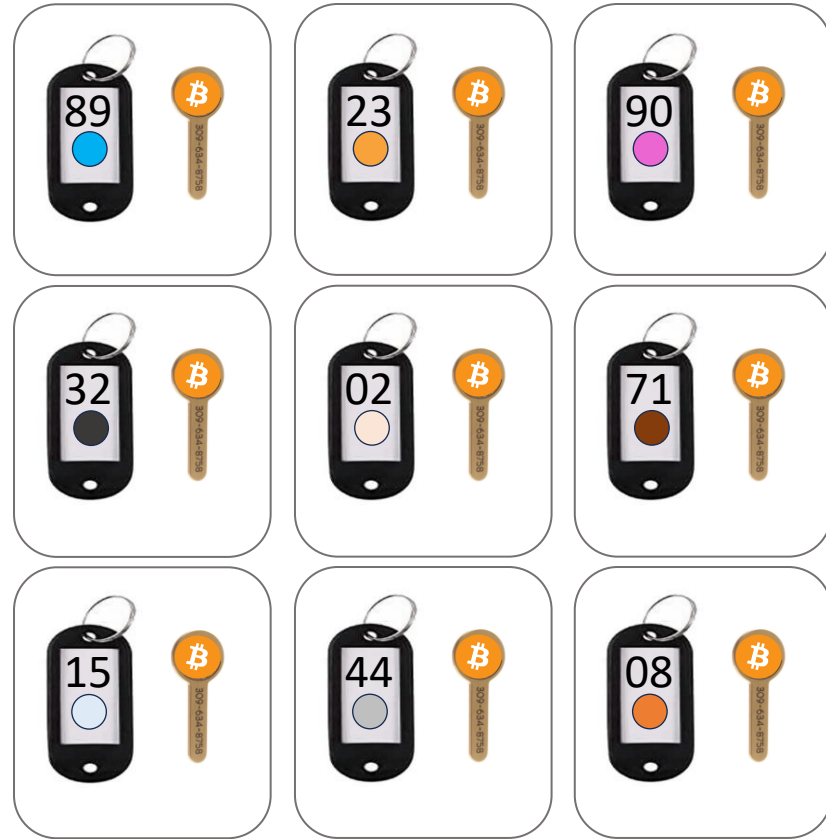
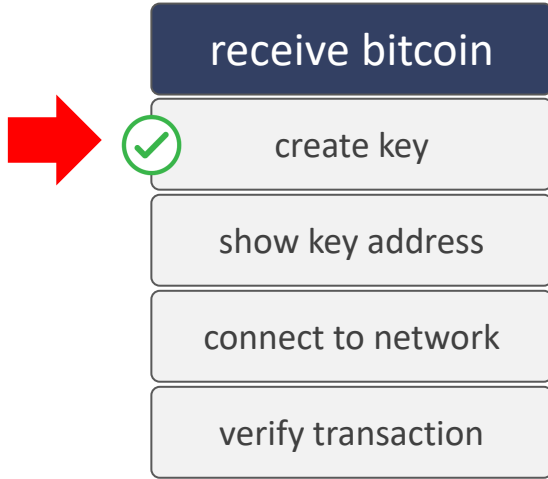
connect to network

verify transaction



Seed + Passphrase	
Master private key	
XPRIV	
Type	
Currency	
Wallet number	
Key number	
Private Keys	

1 RESULT.....
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5 RICH.....
6 HEART.....
7 TOAST.....
8 NASTY.....
9 CHOICE.....
10 CONSIDER.....
11 AWARE.....
12 CANNON.....



receive bitcoin



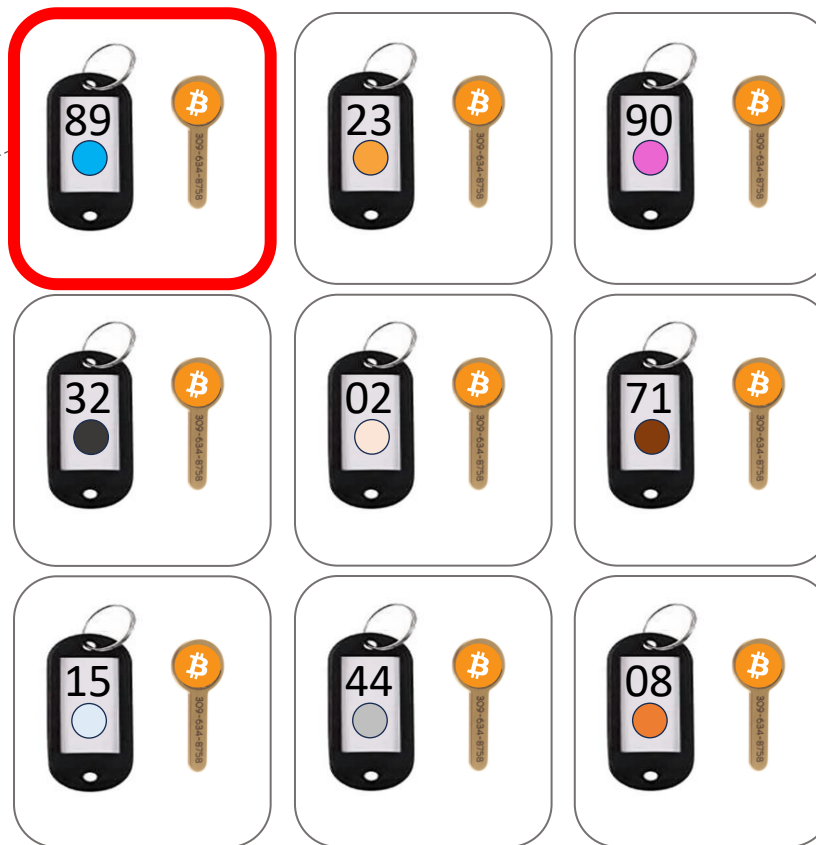
create key



show key address

connect to network

verify transaction



receive bitcoin



create key



show key address



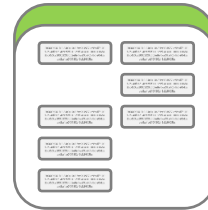
connect to network

verify transaction



receive bitcoin

- ✓ create key
- ✓ show key address
- ✓ connect to network
- ✓ verify transaction



receive bitcoin

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```
0100000001bdd84c0a10482ee004977ae99cdf7109
b9b640f21d54cccafef1315c9d346a81010080006b4
83045022100c1f209db2e8efb2e9Oef054bdle0f4c2b
adba4ce5f0710141cf19969bc63065c02203f34b4c6d
d8f19355c1c457dbc101273f096faab8abf29b67edeb
cdcle3f551d0a412103adf90e9560aa579e128a64f7c
4f024fe32031a9f7550f6f6e511db3f8e062a0800000
0003c8cfe300080000001976a914deedd3c18efe2b2
c6838e8bacca056cd4aacf8d388acc8cf03000000000
01976a914bc07ca234f8ffedbe26513ee093312aa4f2
1be0a88ac00000000000000000e6a0401010101076
26746175746800000000
```

receive bitcoin

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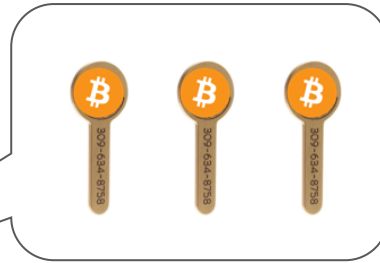
```
0100000001bdd84c0a10482ee004977ae99cdf7109
b9b640f21d54cccafef1315c9d346a81010080006b4
83045022100c1f209db2e8efb2e9Oef054bdle0f4c2b
adba4ce5f0710141cf19969bc63065c02203f34b4c6d
d8f19355c1c457dbc101273f096faab8abf29b67edeb
cdcle3f551d0a412103adf90e9560aa579e128a64f7c
4f024fe32031a9f7550f6f6e511db3f8e062a0800000
0003c8cfe300080000001976a914deedd3c18efe2b2
c6838e8bacca056cd4aacf8d388acc8cf0300000000
01976a914bc07ca234f8ffedbe26513ee093312aa4f
21be0a88ac0000000000000000e6a040101010107
626746175746800000000
```

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Name	Date modified	Type	Size
blocks	11/12/2018 1:44 PM	File folder	
chainstate	11/12/2018 1:45 PM	File folder	
database	11/12/2018 1:43 PM	File folder	
.lock	7/8/2018 10:06 PM	LOCK File	0 KB
.walletlock	7/8/2018 10:06 PM	WALLETLOCK File	0 KB
banlist.dat	7/8/2018 10:06 PM	DAT File	1 KB
bitcoin.conf	7/8/2018 11:27 PM	CONF File	1 KB
db.log	7/8/2018 10:06 PM	Text Document	0 KB
debug.log	11/12/2018 1:43 PM	Text Document	9,769 KB
fee_estimates.dat	11/11/2018 10:49	DAT File	243 KB
mempool.dat	11/11/2018 10:49	DAT File	1 KB
peers.dat	11/11/2018 10:49	DAT File	3,397 KB
wallet.dat	11/12/2018 1:44 PM	DAT File	1,304 KB

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blocks	11/12/2018 1:44 PM	File folder	
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.lock	7/8/2018 10:06 PM	LOCK File	0 KB
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A file explorer window showing the contents of a Bitcoin wallet directory. A callout box with a Bitcoin logo and several coins is pointing to the "chainstate" folder. The table below lists the files and folders.

Name		Type	Size
blocks	11/12/2018 1:44 PM	File folder	
chainstate	11/12/2018 1:45 PM	File folder	
database	11/12/2018 1:43 PM	File folder	
.lock	7/8/2018 10:06 PM	LOCK File	0 KB
.walletlock	7/8/2018 10:06 PM	WALLETLOCK File	0 KB
banlist.dat	7/8/2018 10:06 PM	DAT File	1 KB
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peers.dat	11/11/2018 10:49	DAT File	3,397 KB
wallet.dat	11/12/2018 1:44 PM	DAT File	1,304 KB

receive bitcoin

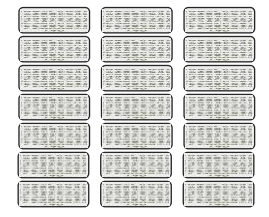
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send bitcoin

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Name	Type	Size
blocks	File folder	
chainstate	File folder	
database	File folder	
.lock	LOCK File	0 KB
.walletlock	WALLETLOCK File	0 KB
banlist.dat	DAT File	1 KB
bitcoin.conf	CONF File	1 KB
db.log	Text Document	0 KB
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.walletlock		WALLETLOCK File	0 KB
banlist.dat		BT File	1 KB
bitcoin.conf		CONF File	1 KB
db.log		Text Document	0 KB
debug.log		Text Document	9,769 KB
fee_estimates.dat	11/11/2018 10:49	DAT File	243 KB
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peers.dat	11/11/2018 10:49	DAT File	3,397 KB
wallet.dat	11/12/2018 1:44 PM	DAT File	1,304 KB



receive bitcoin

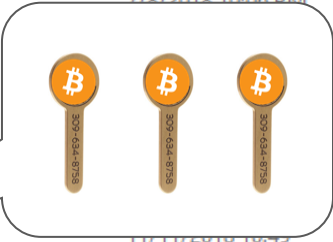
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Private Keys	Public Keys	Address
L1WgXj8Z7seFRFFEmfL7sV3Ckc2Xv9wMtyGpo4w5asw7MhsZgGu7	043f8663e664d0d86c2f3721a3082633a1a510d98e8c3e002d1e6d518e1f39eb71c4a4fc1ce20b79282fc2a9050a47d26300a8c6e6f30a43b32473f72d03899b1	1F26pNMrywyZldr22jErtKcjF8R3Ttt55G
KxJh3QqmtBYnMxThqX8YwKg8W1dkf6KoTtN89W8xgYKjk3gQkY5	0423a13525d2e8ecf199e1d0ae94e26996ff4f25168a6be8a2c5723d2c5c37415ec1a8b0f78e9c5ef5e93855f0b70e5a2c0e29b3a7744c5ab7e5d9d1d863c38b3f	1FwXGQNKHbcD5QGiryyAhaH68g93Y6TrBC
5Km2ku3PWJ8sU94rDG6uJQovCjgUHgQcR5mP7eP4q8q5NRe34T	0417b80b7a038bde4d36240176f9c897de81a59bfe4f9d5e5b2dbba5d62e250a7f6e6cde62746a5f3b1330b95a2c702a1f2033c4a4b570e83e89e6463ecf1232	1LN5GbrU9QUVU6L1nZUsrY7hr4kHLbM8S
L3XNrsgeLSkUshw3W7AdXx7VkJRd1Q4G15Zb7DtkwGwUcQyXG3d6	049b4062e22f49e42d91f2f1f9c72e267cd5a11b8080e9a4765c10a23c2ee22c146a1957c614db28db6327b68f1be1b9d4b4acac3542f191f3271f8828a5e0f3e1	1Eboc2JFLPb2ftVu42n2REHf5th1qTeVmt
KwH2trJSHf3JrRYez4G8Ynm3ur91R3MKKh1HfBDSyShVf8dRoz1G	0415a7b498e21d4bbfc86bfa1ac72313e1e02cf5e8f6ab74bcb8f9f9563cb4eeffbd1c22a80f2c0e7ac4c0210e1f225a05a8c4c11891b2a05a33b9e868ca2094c4	1DzvEppVxLjtv9FF6H2ZfXr9pH5wL5GzK
5JXgBKe32nu7yferRm3wJi2b7wcScU4ITF2V5Mb2zj6cX2Fbcp	043ea7ef69b44a3531a5004e09db4f548b0f28942d1e6925a4d0a38f4c8357c4bd3209ed0985c949931e44e3f0d8b72deba9961f1429a7226fcd3a69f9e8c42a6	1AbZXjvW5Uyz9MRZt9Y8zVbMwN2dJE8hjZ
L3f8tBrG5H9HPF7r5VAzA3Qe7M82TjyBp3mQhtWdojAGdVYPR3Wz	04d4c9e2a9471b00597a7f25320b6e00a1284ba6b44a36740d92f600b6a1511ab87f32bf180e1c8bbf2f27e0f2d6d05a08f882bcb43bf5d7246cb6db3446ab37d	1M7TtY4uANv2xb1kq8eJg4vYdCw8T04xe8
Kw4Fg6f78UoFMB2KEmn1g9L4Qy9xQkAjDSy7Cy5UBvZmXk2mDy	04e6d3f335a5c8e45d5c65f14844b942a36c0b2f13f1e89e6ab37b99a7f4319b34a30b0c8e20fbd6f56de9a4d5ab4b7e77d2bfc66c63b7d65672a0da85a8d7c5f	1DEP8i3QJCsoms4BSMY2RpU1upv62aGvhD
5Jii6Bmu47SgdnSgX8NrvQb9AnvgSzo3e59ToUgP9xhsgzRw9nt	041b183d5526daab1f0d4fdcd32fda6f8f9f6c74378d79b02c6dcbf253f6f7e50b1e5f14e52bb50d60efb4b0f2daa8efb5018b0a74d641399ef9f064a8f23b73	1FF9FqBmzXijqMD9ScffzGqGyEHK9nkj
L3fF8jCjwSYE1V9v8CTmLp5e1dBbNc2JURP5EZ8FwjHCGfMko5Zf	04d3d0c114c31a81555b252a6a129e135a2aa16e2a92b859d3e3c7e60f4f70c7f8d8e0544f72b4c0f4b2e1f04b18ffcb1605d6e7f78c5f9b05e91f4099a96317a	1KtpGYCfw7o7S1KfP7z4ToLQa7h2o9aytR
Kx4DhXMX5As1QnHbZ9q4B8ge5V9MRDzSuDx6Lbj5B1hSeUza9m7Q	04aa5f99a024a4ea34b0fbd6f9bdc0974a2d3bdaa072af8a3ce808b48f0a4b5f6487c2b87a49ac24d4a5e922d4d98f089f49888aa5c0c4007d9fa3b340180e42c8	1GjWoCL5otkUGX7sNpCxxvBoRveR1dL1vc

receive bitcoin

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send bitcoin

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```
010000001bdd84c0a10482ee004977ae99cdf7
109b9b640f21d54cccafe1315c9d346a8101008
0006b483045022100c1f209db2e8efb2e90ef05
4bdle0f4c2badba4ce5f0710141cf19969bc6306
5c02203f34b4c6dd8f19355c1c457dbc101273f0
96faab8abf29b67e9ebcdcle3f551d0a412103ad
f90e9560aa579e128a64f7c4f024fe32031a9f75
50f6f6e511db3f8e062a08000000003c8cf3000
80000001976a914deedd3c18efe2b2c6838e8ba
cca056cd4aacf8d388acc8cf030000000001976
a914bc07ca234f8ffedbe26513ee093312aa4f21
be0a88ac000000000000000e6a0401010101
07626746175746800000000
```



receive bitcoin

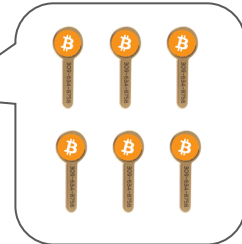
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```
010000001bdd84c0a10482ee004977ae99cdf7  
109b9b640f21d54cccafe1315c9d346a8101008  
0006b483045022100c1f209db2e8efb2e90ef05  
4bdle0f4c2badba4ce5f0710141cf19969bc6306  
5c02203f34b4c6dd8f19355c1c457dbc101273f0  
96faab8abf29b67edebcdcle3f551d0a412103ad  
f90e9560aa579e128a64f7c4f024fe32031a9f75  
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80000001976a914deedd3c18efe2b2c6838e8b  
acca056cd4aacf8d388acc8cf03000000000197  
6a914bc07ca234f8ffedbe26513ee093312aa4f2  
1be0a88ac000000000000000e6a040101010  
107626746175746800000000
```



receive bitcoin

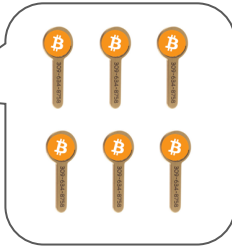
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```
010000001bdd84c0a10482ee004977ae99cdf7
109b9b640f21d54cccafe1315c9d346a8101008
0006b483045022100c1f209db2e8efb2e90ef05
4bdle0f4c2badba4ce5f0710141cf19969bc6306
5c02203f34b4c6dd8f19355c1c457dbc101273f0
96faab8abf29b67e9ebcdcle3f551d0a412103ad
f90e9560aa579e128a64f7c4f024fe32031a9f75
50f6fe511db3f8e062a0800000003c8fe3000
80000001976a914deedd3c18efe2b2c6838e8b
acca056cd4aacf8d388acc8cf03000000000197
6a914bc07ca234f8ffedbe26513ee093312aa4f2
1be0a88ac000000000000000e6a040101010
107626746175746800000000
```

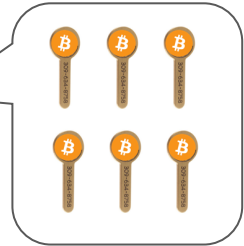


receive bitcoin

- ✓ create key
- ✓ show key address
- ✓ connect to network
- ✓ verify transaction

send bitcoin

- ✓ create transaction
- ✓ sign transaction
- connect to network
- broadcast transaction
- verify transaction

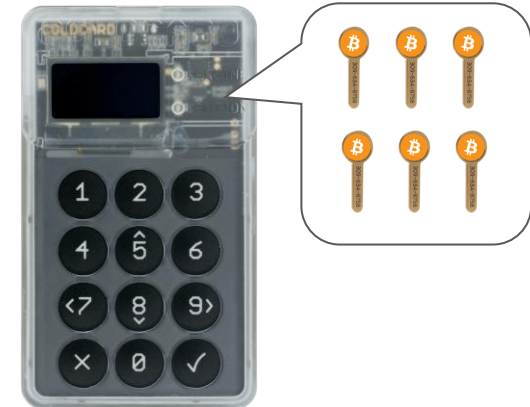


receive bitcoin

- ✓ create key
- ✓ show key address
- ✓ connect to network
- ✓ verify transaction

send bitcoin

- ✓ create transaction
- ✓ sign transaction
- connect to network
- broadcast transaction
- verify transaction

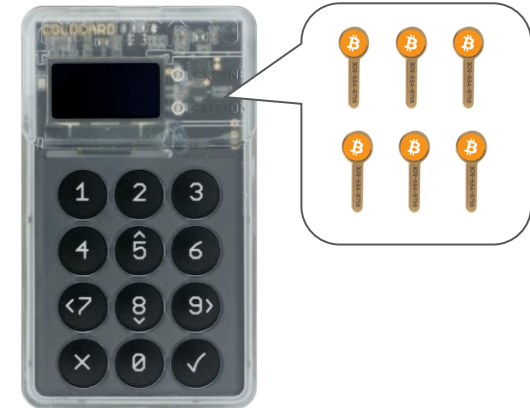
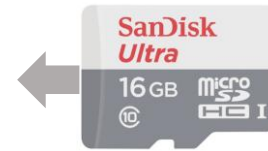


receive bitcoin

- ✓ create key
- ✓ show key address
- ✓ connect to network
- ✓ verify transaction

send bitcoin

- ✓ create transaction
- ✓ sign transaction
- connect to network
- broadcast transaction
- verify transaction



receive bitcoin

- ✓ create key
- ✓ show key address
- ✓ connect to network
- ✓ verify transaction

send bitcoin

- ✓ create transaction
- ✓ sign transaction
- connect to network
- broadcast transaction
- verify transaction

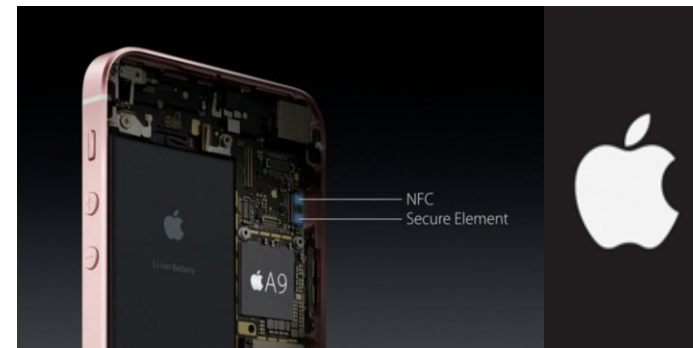


receive bitcoin

- ✓ create key
- ✓ show key address
- ✓ connect to network
- ✓ verify transaction

send bitcoin

- ✓ create transaction
- ✓ sign transaction
- connect to network
- broadcast transaction
- verify transaction



receive bitcoin

- ✓ create key
- ✓ show key address
- ✓ connect to network
- ✓ verify transaction

send bitcoin

- ✓ create transaction
- ✓ sign transaction
- connect to network
- broadcast transaction
- verify transaction



receive bitcoin

- ✓ create key
- ✓ show key address
- ✓ connect to network
- ✓ verify transaction

send bitcoin

- ✓ create transaction
- ✓ sign transaction
- ✓ connect to network
- broadcast transaction
- verify transaction

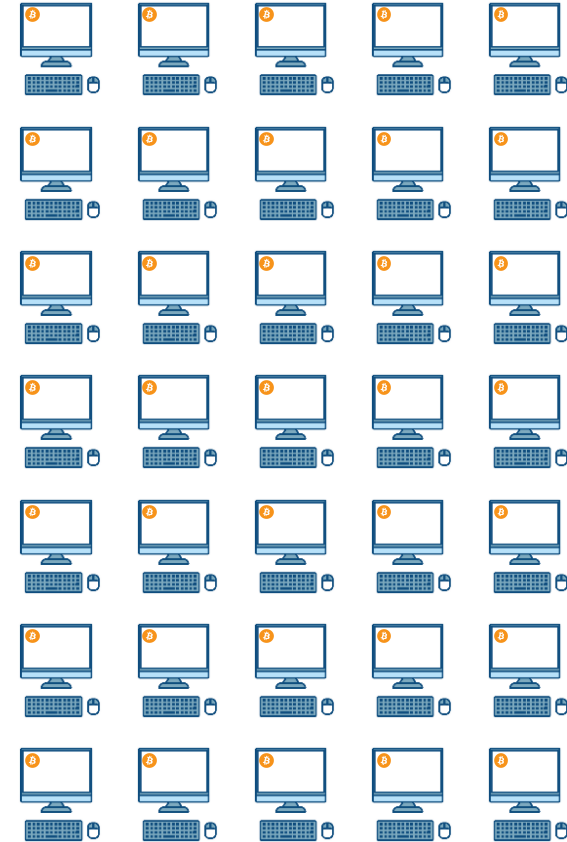


receive bitcoin

- ✓ create key
- ✓ show key address
- ✓ connect to network
- ✓ verify transaction

send bitcoin

- ✓ create transaction
- ✓ sign transaction
- ✓ connect to network
- broadcast transaction
- verify transaction



receive bitcoin

- ✓ create key
- ✓ show key address
- ✓ connect to network
- ✓ verify transaction

send bitcoin

- ✓ create transaction
- ✓ sign transaction
- ✓ connect to network
- ✓ broadcast transaction
- verify transaction



```
0100000001bdd84c0a10482ee004977ae99cdf7
109b9b640f21d54cccafe1315c9d346a8101008
0006b483045022100c1f209db2e8efb2e90ef05
4bdle0f4c2badba4ce5f0710141cf19969bc6306
5c02203f34b4c6dd8f19355c1c457dbc101273f0
96faab8abf29b67edebeccle3f551d0a412103ad
f90e9560aa579e128a64f7c4f024fe32031a9f75
50f6f6e511db3f8e062a0800000003c8fe3000
80000001976a914deedd3c18efe2b2c6838e8b
acca056cd4aac8d388acc8cf030000000000197
6a914bc07ca234f8ffedbe26513ee093312aa4f2
1be0a88ac0000000000000000e6a040101010
107626746175746800000000
```

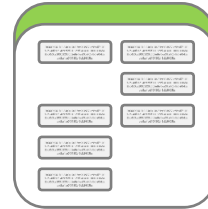


receive bitcoin

- ✓ create key
- ✓ show key address
- ✓ connect to network
- ✓ verify transaction

send bitcoin

- ✓ create transaction
- ✓ sign transaction
- ✓ connect to network
- ✓ broadcast transaction
- ✓ verify transaction



receive bitcoin

- ✓ create key
- ✓ show key address
- ✓ connect to network
- ✓ verify transaction

send bitcoin

- ✓ create transaction
- ✓ sign transaction
- ✓ connect to network
- ✓ broadcast transaction
- ✓ verify transaction



receive bitcoin

- ✓ create key
- ✓ show key address
- ✓ connect to network
- ✓ verify transaction

send bitcoin

- ✓ create transaction
- ✓ sign transaction
- ✓ connect to network
- ✓ broadcast transaction
- ✓ verify transaction



receive bitcoin

- ✓ create key
- ✓ show key address
- ✓ connect to network
- ✓ verify transaction

send bitcoin

- ✓ create transaction
- ✓ sign transaction
- ✓ connect to network
- ✓ broadcast transaction
- ✓ verify transaction



receive bitcoin

create key

show key address

connect to network

verify transaction

send bitcoin

create transaction

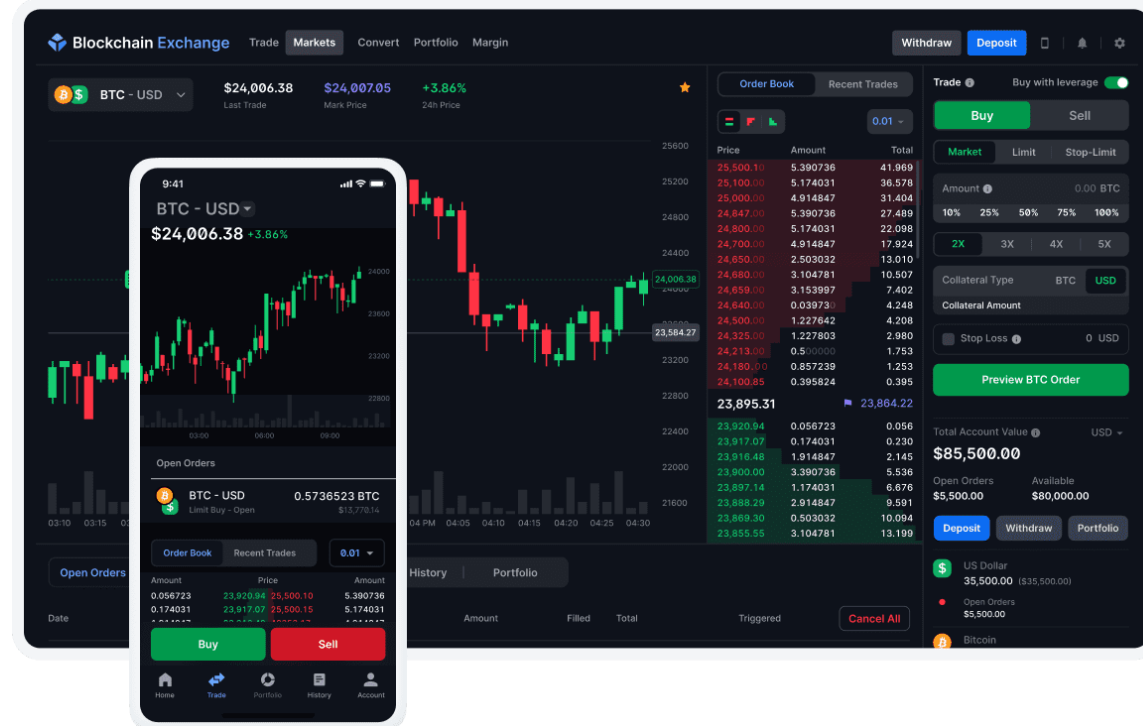
sign transaction

connect to network

broadcast transaction

verify transaction

exchange wallet



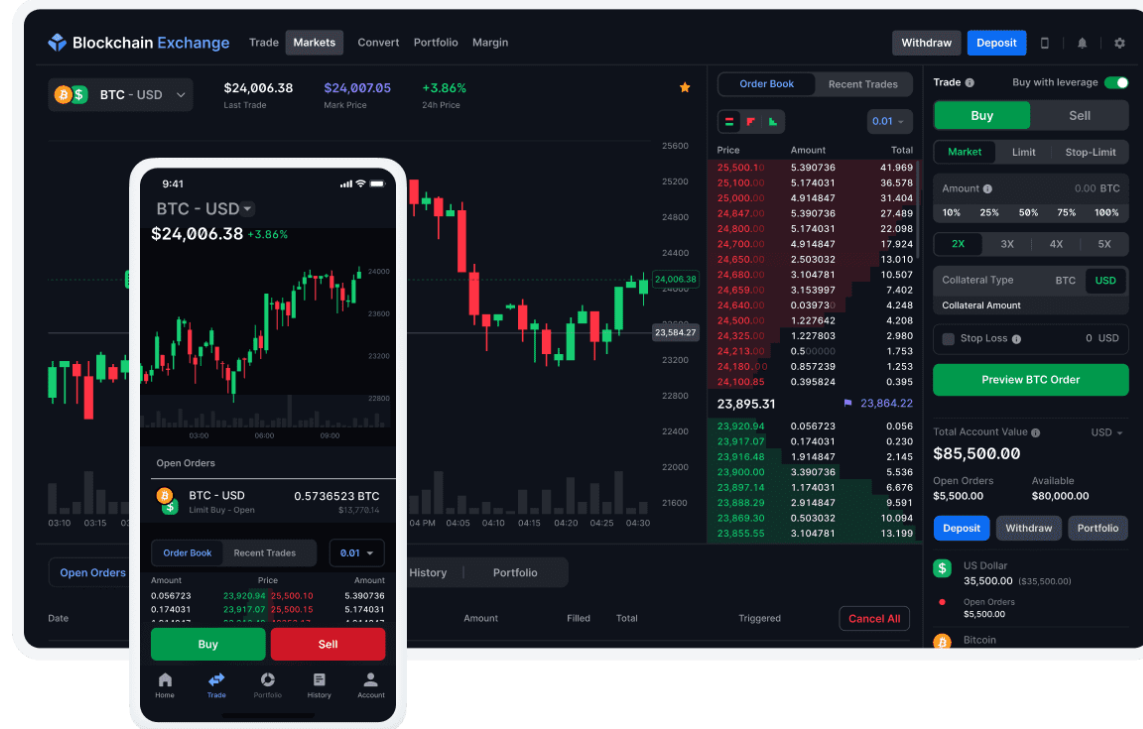
receive bitcoin

- ❌ create key
- ❌ show key address
- ❌ connect to network
- ❌ verify transaction

send bitcoin

- ❌ create transaction
- ❌ sign transaction
- ❌ connect to network
- ❌ broadcast transaction
- ❌ verify transaction

exchange wallet



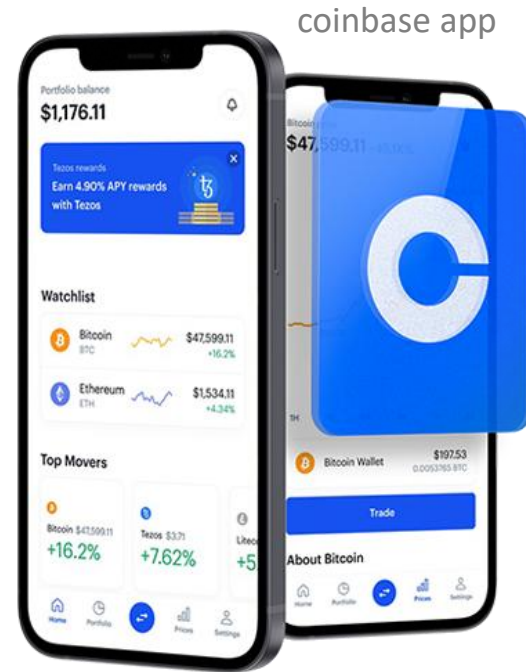
receive bitcoin

- ✓ create key
- ✓ show key address
- ✓ connect to network
- ✓ verify transaction

send bitcoin

- ✓ create transaction
- ✓ sign transaction
- ✓ connect to network
- ✓ broadcast transaction
- ✓ verify transaction

exchange wallet



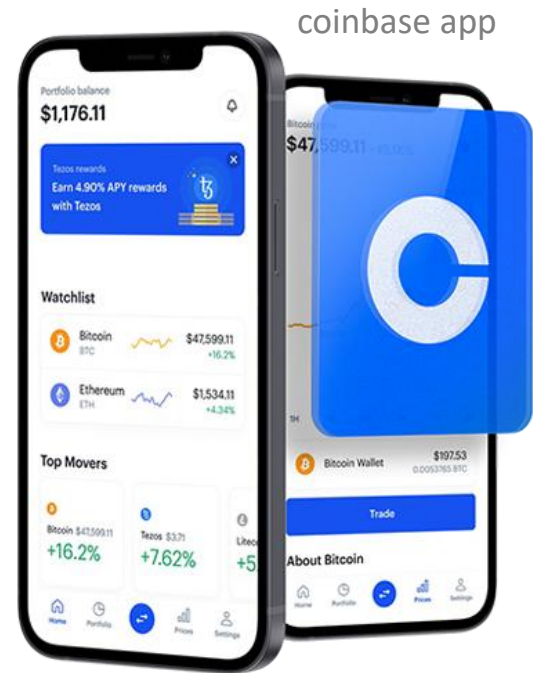
receive bitcoin

- ✓ create key
- ✓ show key address
- ✓ connect to network
- ✓ verify transaction

send bitcoin

- ✓ create transaction
- ✓ sign transaction
- ✓ connect to network
- ✓ broadcast transaction
- ✓ verify transaction

exchange wallet



buy

sell

receive bitcoin

create key

show key address

connect to network

verify transaction

send bitcoin

create transaction

sign transaction

connect to network

broadcast transaction

verify transaction

brain wallet



1 RESULT
2 INDEX
3 DECLINE
4 PILL
5 RICH
6 HEART
7 TOAST
8 NASTY
9 CHOICE
10 CONSIDER
11 AWARE
12 CANNON

receive bitcoin

create key

show key address

connect to network

verify transaction

send bitcoin

create transaction

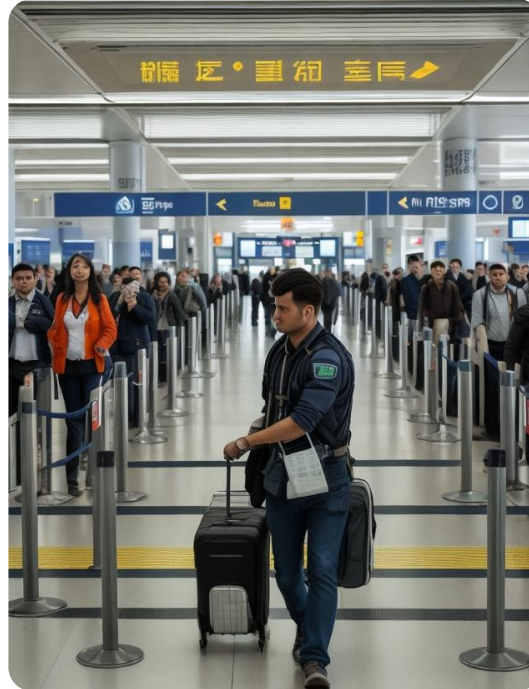
sign transaction

connect to network

broadcast transaction

verify transaction

brain wallet



receive bitcoin

create key

show key address

connect to network

verify transaction

send bitcoin

create transaction

sign transaction

connect to network

broadcast transaction

verify transaction

brain wallet



1 RESULT
2 INDEX
3 DECLINE
4 PILL
5 RICH
6 HEART
7 TOAST
8 NASTY
9 CHOICE
10 CONSIDER
11 AWARE
12 CANNON

receive bitcoin

- ❌ create key
- ❌ show key address
- ❌ connect to network
- ❌ verify transaction

send bitcoin

- ❌ create transaction
- ❌ sign transaction
- ❌ connect to network
- ❌ broadcast transaction
- ❌ verify transaction

brain wallet



1 RESULT
2 INDEX
3 DECLINE
4 PILL
5 RICH
6 HEART
7 TOAST
8 NASTY
9 CHOICE
10 CONSIDER
11 AWARE
12 CANNON

receive bitcoin

- ✓ create key
- ✓ show key address
- ✓ connect to network
- ✓ verify transaction

send bitcoin

- ✓ create transaction
- ✓ sign transaction
- ✓ connect to network
- ✓ broadcast transaction
- ✓ verify transaction

brain wallet



1 RESULT
2 INDEX
3 DECLINE
4 PILL
5 RICH
6 HEART
7 TOAST
8 NASTY
9 CHOICE
10 CONSIDER
11 AWARE
12 CANNON

receive bitcoin

create key

show key address

connect to network

verify transaction

send bitcoin

create transaction

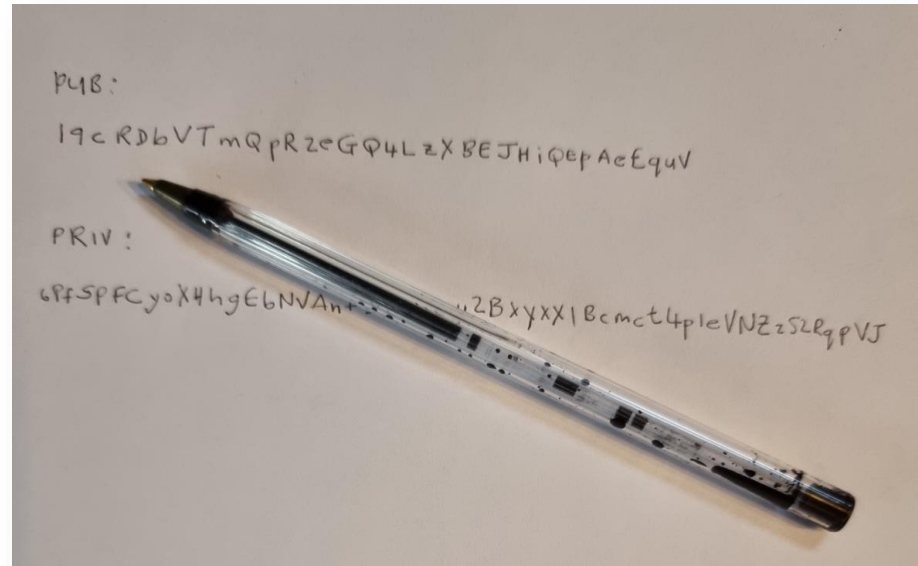
sign transaction

connect to network

broadcast transaction

verify transaction

paper wallet



receive bitcoin

create key

show key address

connect to network

verify transaction

send bitcoin

create transaction

sign transaction

connect to network

broadcast transaction

verify transaction

paper wallet



receive bitcoin

create key

show key address

connect to network

verify transaction

send bitcoin

create transaction

sign transaction

connect to network

broadcast transaction

verify transaction

paper wallet



receive bitcoin

create key

show key address

connect to network

verify transaction

send bitcoin

create transaction

sign transaction

connect to network

broadcast transaction

verify transaction

paper wallet



receive bitcoin

- ✓ create key
- ✓ show key 'address'
- ✗ connect to network
- ✗ verify transaction

send bitcoin

- ✗ create transaction
- ✗ sign transaction
- ✗ connect to network
- ✗ broadcast transaction
- ✗ verify transaction

paper wallet



receive bitcoin

- ✓ create key
- ✓ show key address
- ✓ connect to network
- ✓ verify transaction

send bitcoin

- ✓ create transaction
- ✓ sign transaction
- ✓ connect to network
- ✓ broadcast transaction
- ✓ verify transaction

paper wallet



receive bitcoin

- ✓ create key
- ✓ show key address
- ✗ connect to network
- ✗ verify transaction

send bitcoin

- ✗ create transaction
- ✗ sign transaction
- ✗ connect to network
- ✗ broadcast transaction
- ✗ verify transaction

paper wallet



'sweep key' is better than 'import key'
may need to convert to WIF first

receive bitcoin

create key

show key address

connect to network

verify transaction

send bitcoin

create transaction

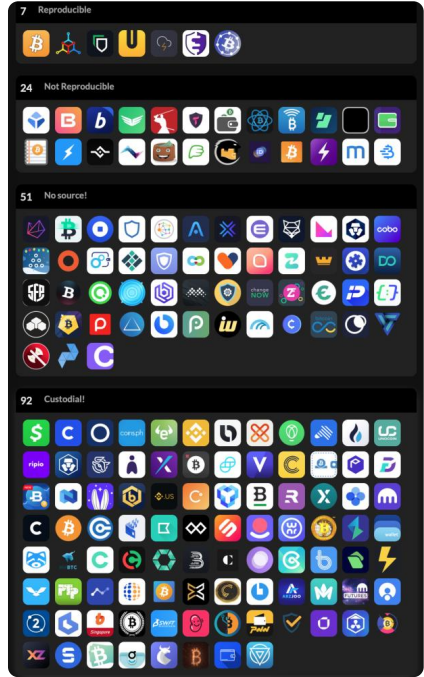
sign transaction

connect to network

broadcast transaction

verify transaction

custodial wallet



receive bitcoin

create key

show key address

connect to network

verify transaction

send bitcoin

create transaction

sign transaction

connect to network

broadcast transaction

verify transaction

custodial wallet



receive bitcoin

create key

show key address

connect to network

verify transaction

send bitcoin

create transaction

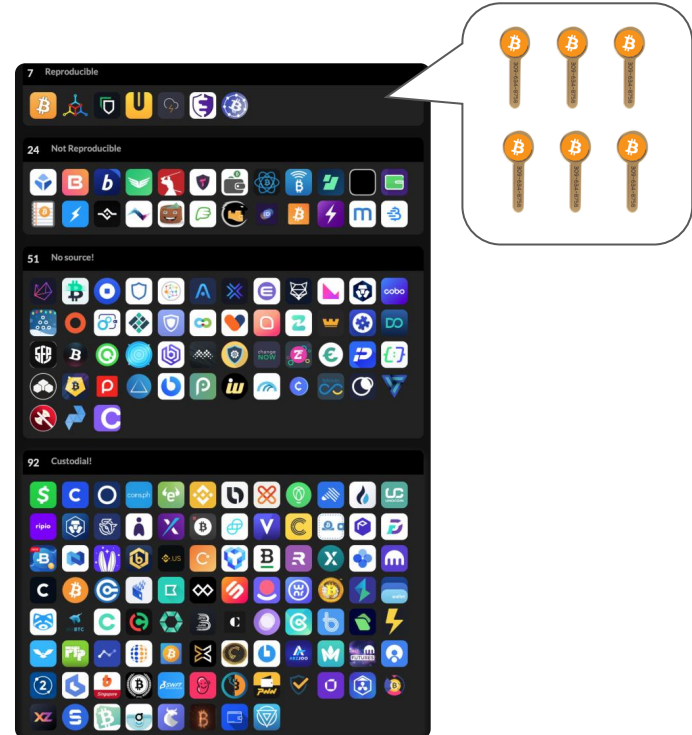
sign transaction

connect to network

broadcast transaction

verify transaction

custodial wallet



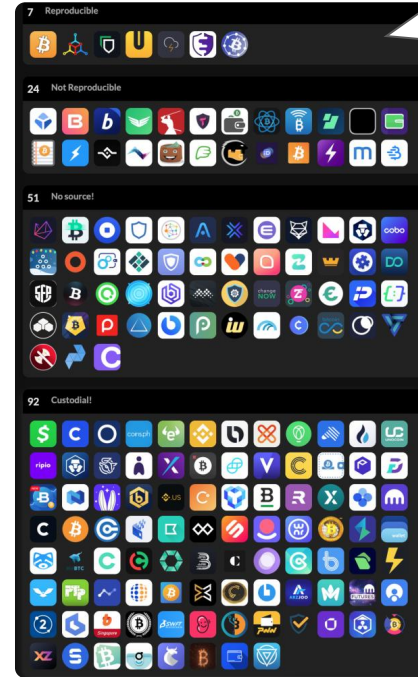
receive bitcoin

- ❌ create key
- ❌ show key address
- ❌ connect to network
- ❌ verify transaction

send bitcoin

- ❌ create transaction
- ❌ sign transaction
- ❌ connect to network
- ❌ broadcast transaction
- ❌ verify transaction

custodial wallet



receive bitcoin

- ❌ create key
- ❌ show key address
- ❌ connect to network
- ❌ verify transaction

send bitcoin

- ❌ create transaction
- ❌ sign transaction
- ❌ connect to network
- ❌ broadcast transaction
- ❌ verify transaction



receive bitcoin

- ❌ create key
- ❌ show key address
- ❌ connect to network
- ❌ verify transaction

send bitcoin


- ❌ create transaction
- ❌ sign transaction
- ❌ connect to network
- ❌ broadcast transaction
- ❌ verify transaction

custodial wallet










receive bitcoin

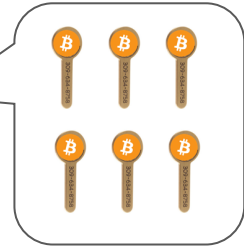
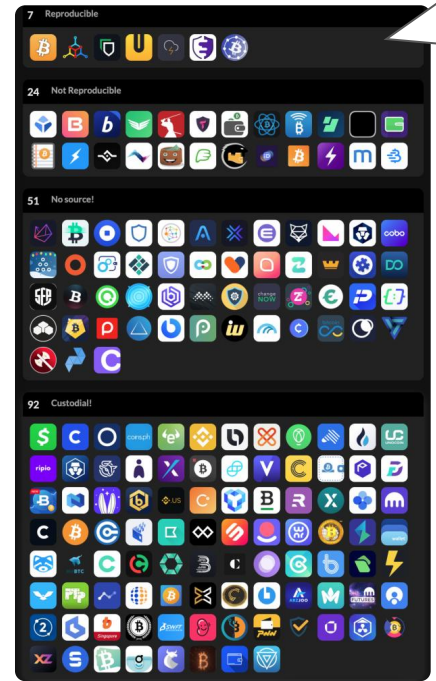
-  create key
-  show key address
-  connect to network
-  verify transaction



send bitcoin

-  create transaction
-  sign transaction
-  connect to network
-  broadcast transaction
-  verify transaction

'semi-custodial' wallet



receive bitcoin

create key

show key address

connect to network

verify transaction

send bitcoin

create transaction

sign transaction

connect to network

broadcast transaction

verify transaction

lightweight wallet



receive bitcoin

create key

show key address

connect to network

verify transaction

send bitcoin

create transaction

sign transaction

connect to network

broadcast transaction

verify transaction

lightweight wallet



receive bitcoin

create key

show key address

connect to network

verify transaction

send bitcoin

create transaction

sign transaction

connect to network

broadcast transaction

verify transaction

lightweight wallet



receive bitcoin

create key

show key address

connect to network

verify transaction

send bitcoin

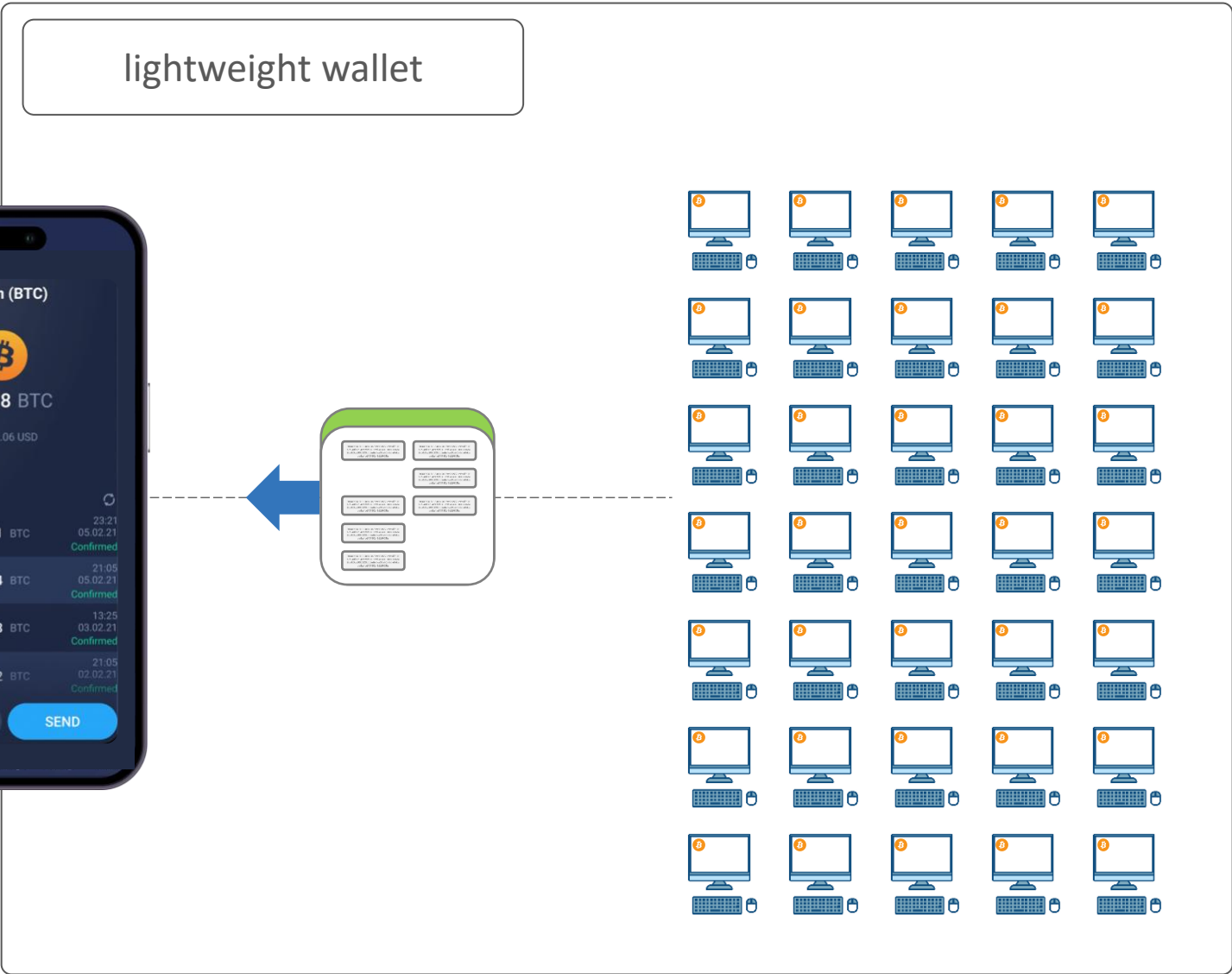
create transaction

sign transaction

connect to network

broadcast transaction

verify transaction



receive bitcoin

create key

show key address

connect to network

verify transaction

send bitcoin

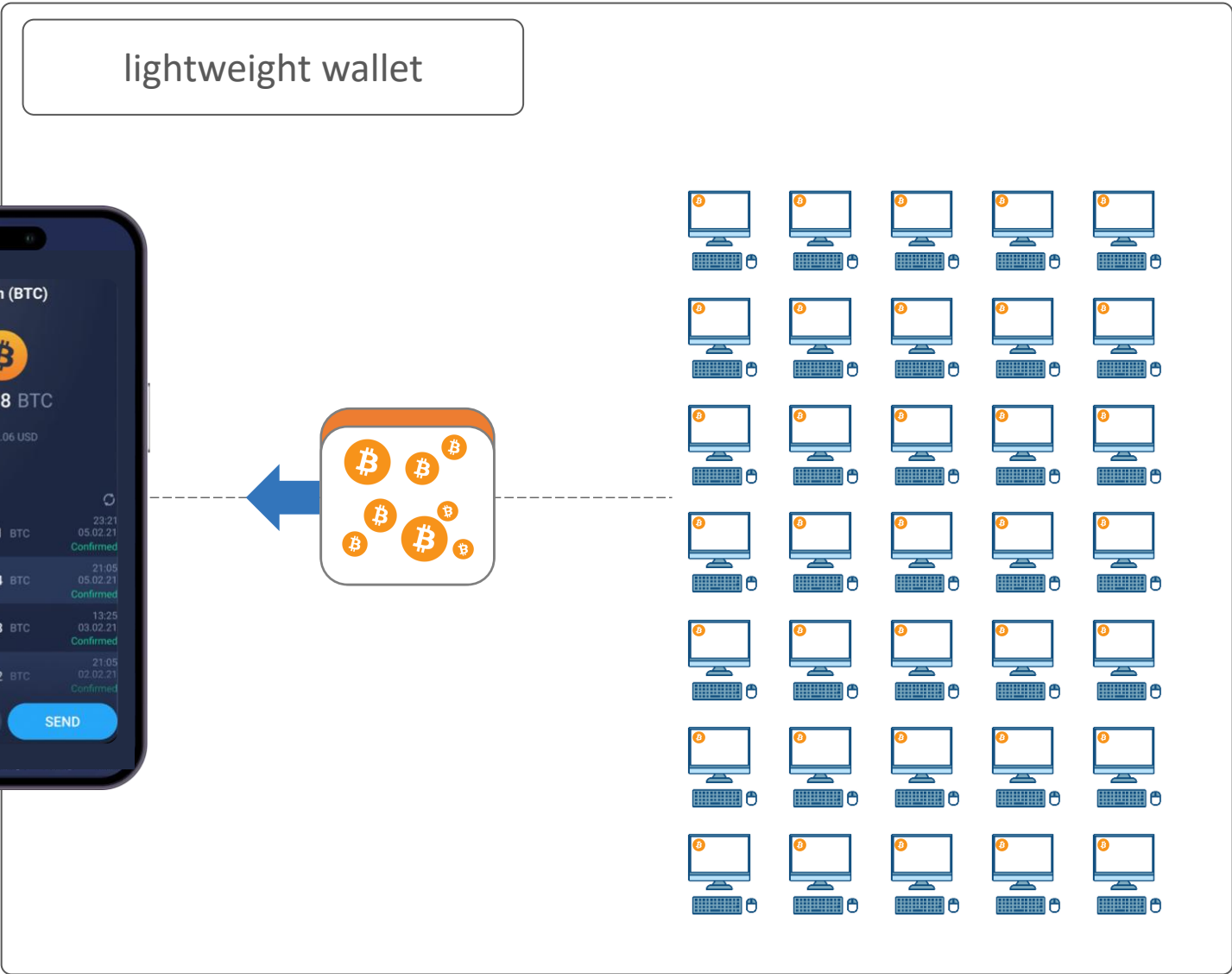
create transaction

sign transaction

connect to network

broadcast transaction

verify transaction



receive bitcoin

create key

show key address

connect to network

verify transaction

send bitcoin

create transaction

sign transaction

connect to network

broadcast transaction

verify transaction

lightweight wallet



receive bitcoin

create key

show key address

connect to network

verify transaction

send bitcoin

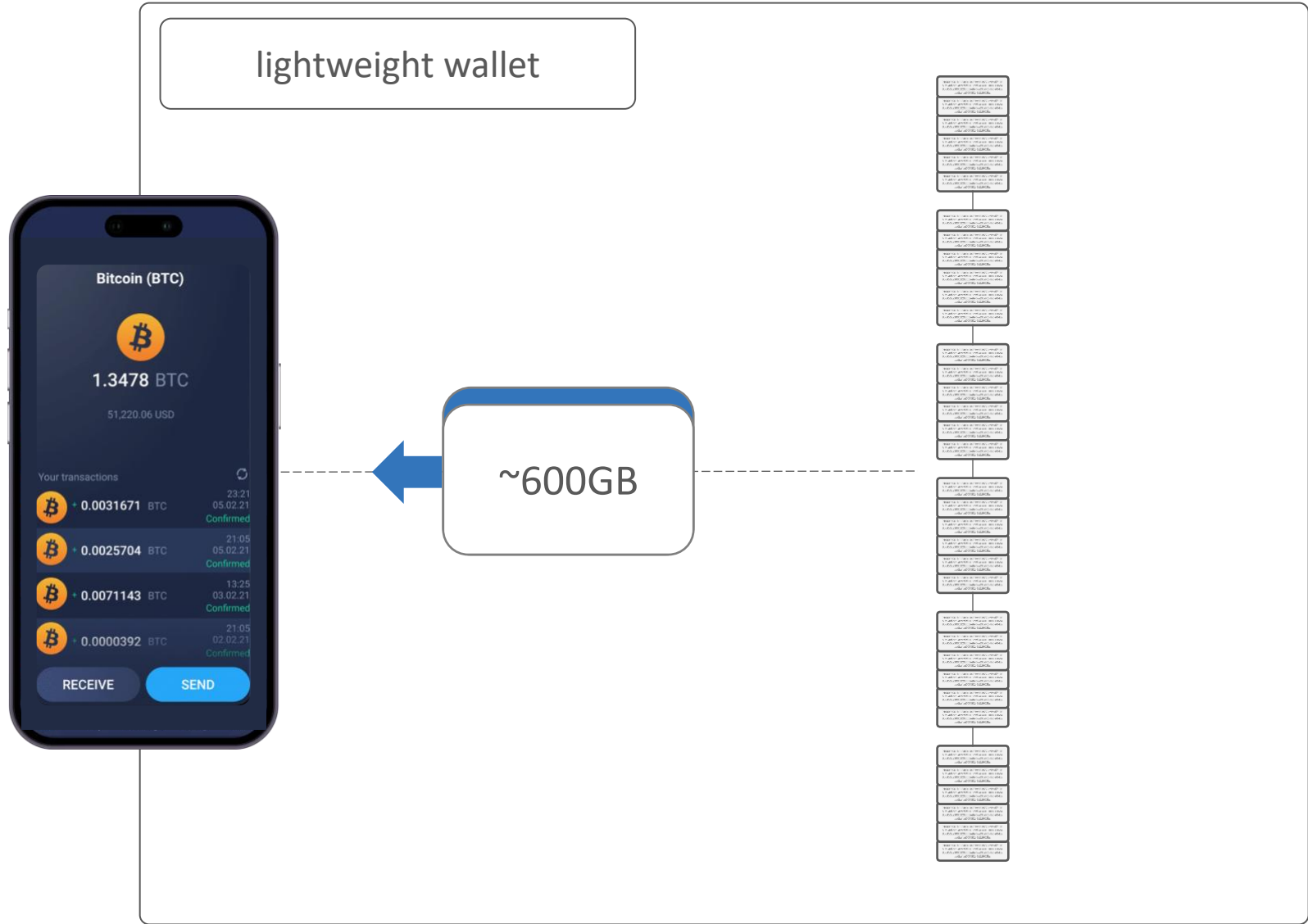
create transaction

sign transaction

connect to network

broadcast transaction

verify transaction



receive bitcoin

create key

show key address

connect to network

verify transaction

send bitcoin

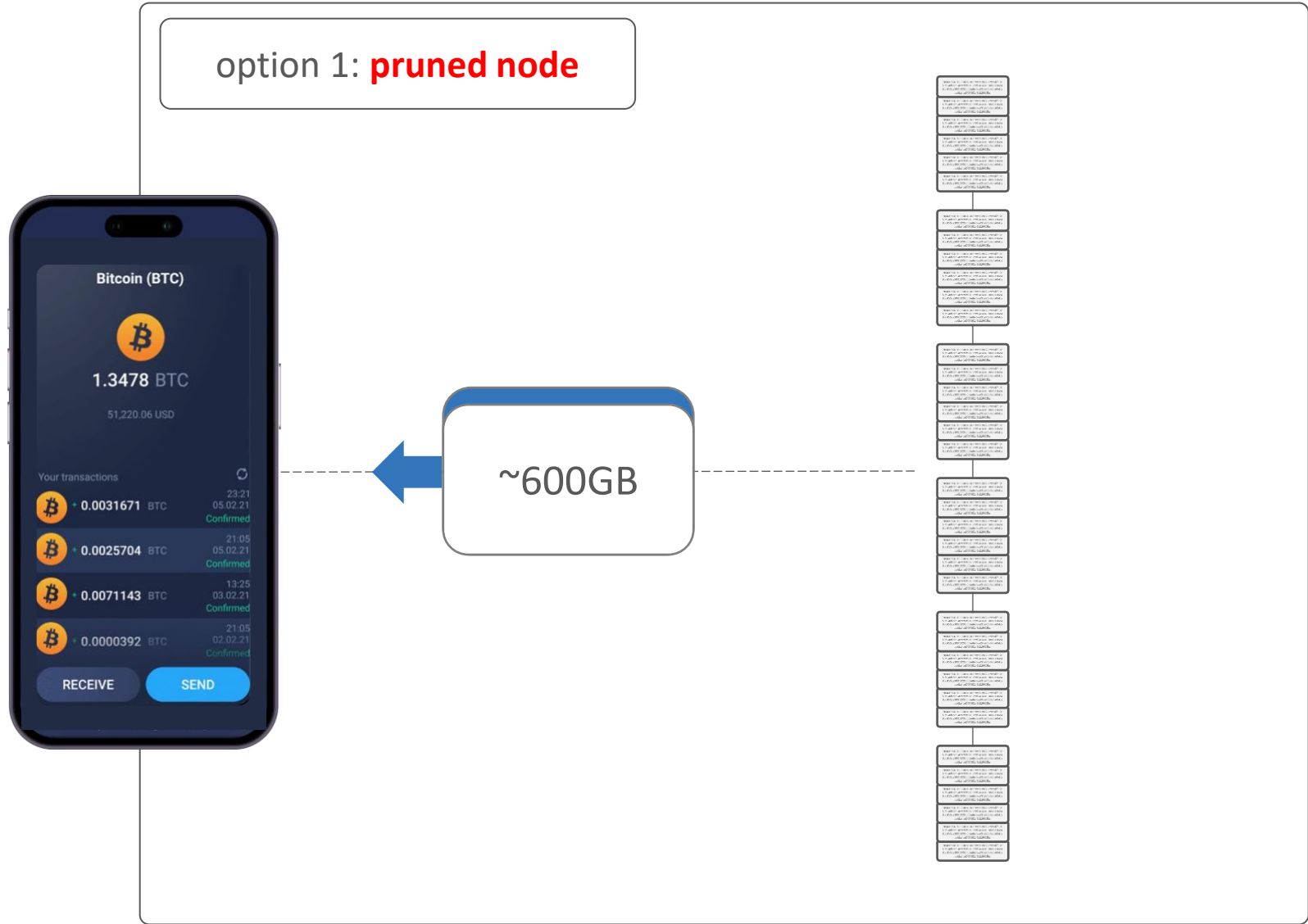
create transaction

sign transaction

connect to network

broadcast transaction

verify transaction



receive bitcoin

create key

show key address

connect to network

verify transaction

send bitcoin

create transaction

sign transaction

connect to network

broadcast transaction

verify transaction

option 1: **pruned node**



receive bitcoin

create key

show key address

connect to network

verify transaction

send bitcoin

create transaction

sign transaction

connect to network

broadcast transaction

verify transaction

option 1: **pruned node**



receive bitcoin

create key

show key address

connect to network

verify transaction

send bitcoin

create transaction

sign transaction

connect to network

broadcast transaction

verify transaction

option 1: **pruned node**



receive bitcoin

create key

show key address

connect to network

verify transaction

send bitcoin

create transaction

sign transaction

connect to network

broadcast transaction

verify transaction

option 1: **pruned node**



receive bitcoin

create key

show key address

connect to network

verify transaction

send bitcoin

create transaction

sign transaction

connect to network

broadcast transaction

verify transaction

option 1: **pruned node**



receive bitcoin

create key

show key address

connect to network

verify transaction

send bitcoin

create transaction

sign transaction

connect to network

broadcast transaction

verify transaction

option 1: **pruned node**



receive bitcoin

create key

show key address

connect to network

verify transaction

send bitcoin

create transaction

sign transaction

connect to network

broadcast transaction

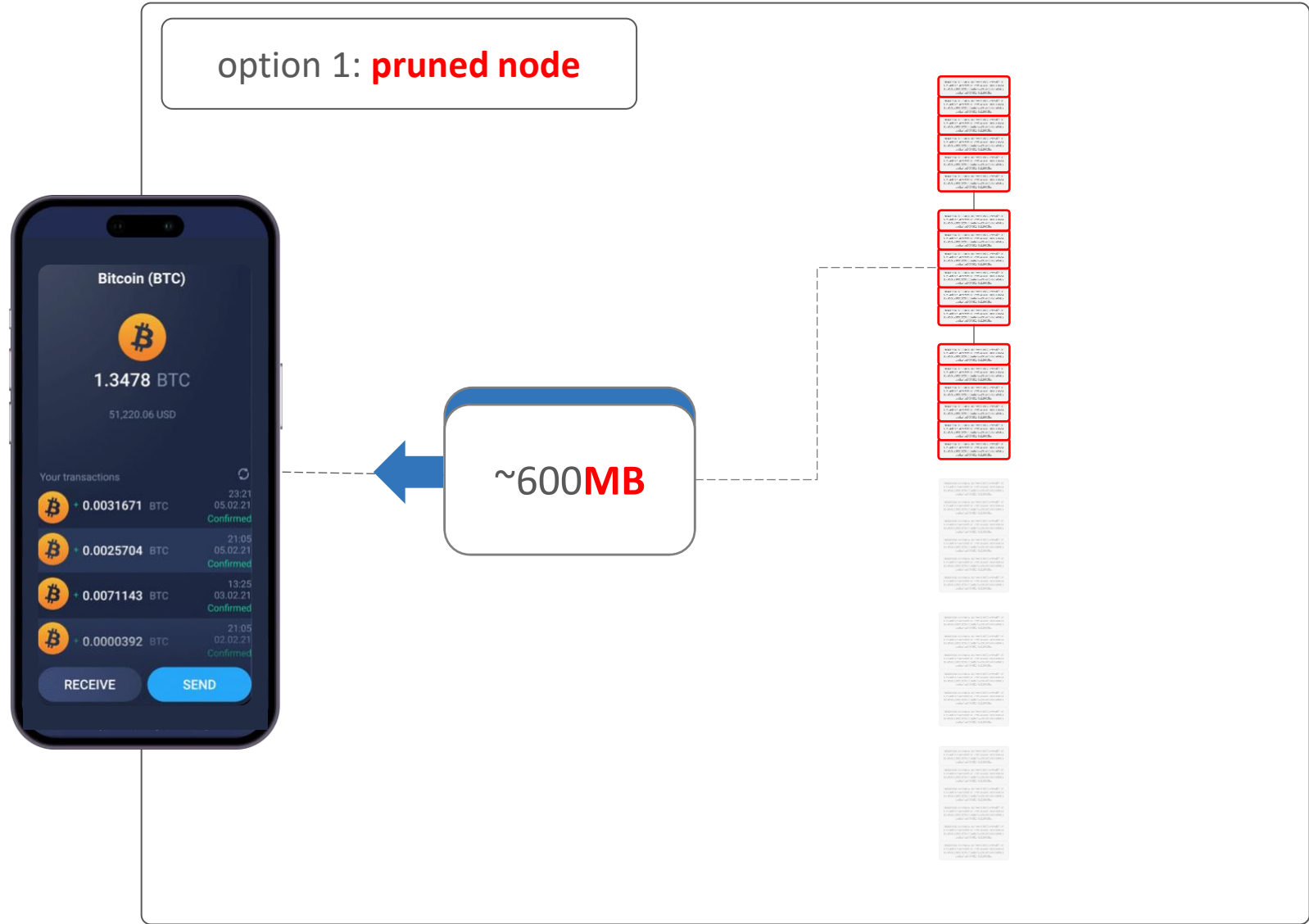
verify transaction

option 1: **pruned node**



- receive bitcoin
- create key
- show key address
- connect to network
- verify transaction

- send bitcoin
- create transaction
- sign transaction
- connect to network
- broadcast transaction
- verify transaction





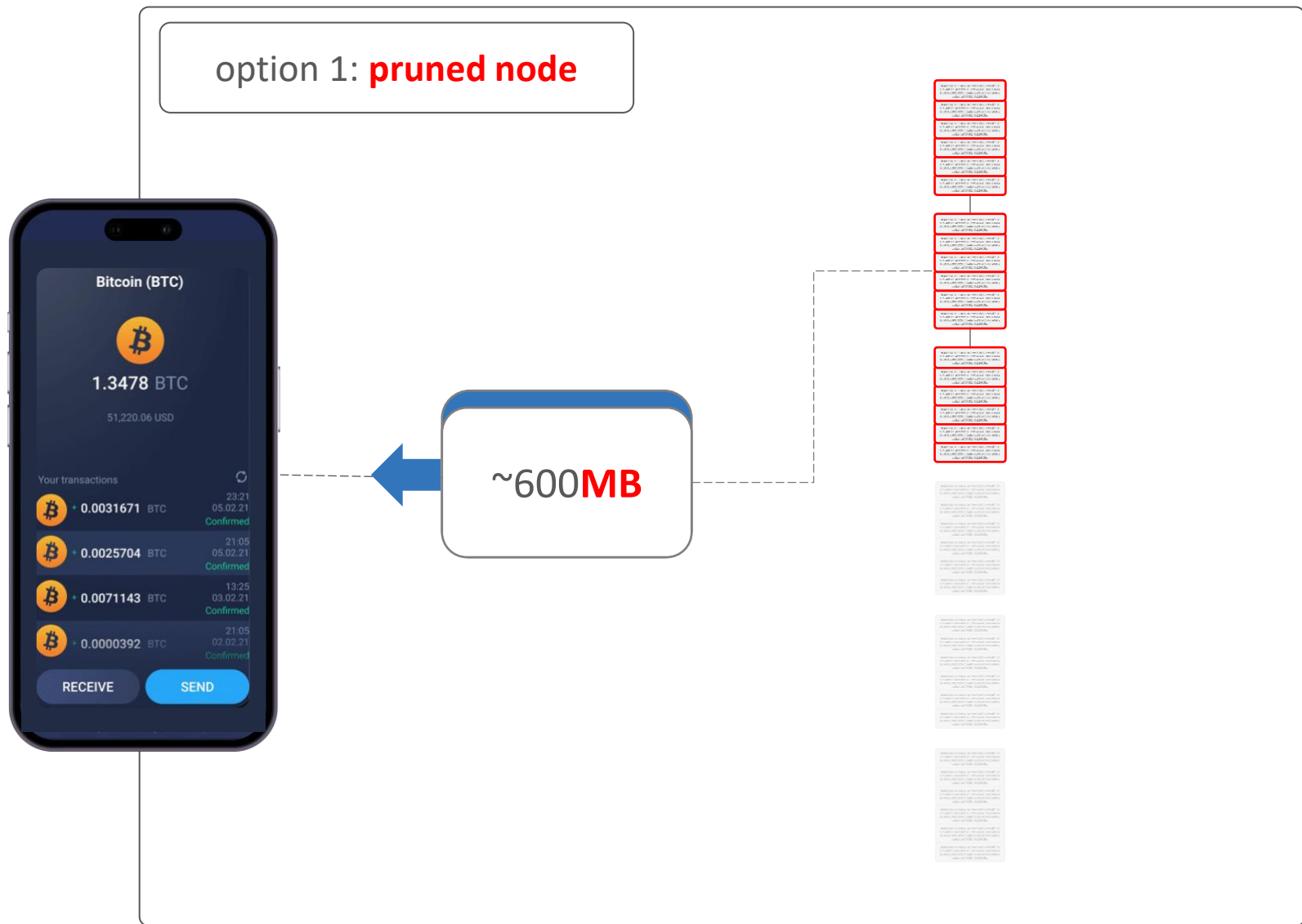
receive bitcoin

- ✓ create key
- ✓ show key address
- ✓ connect to network
- ✓ verify transaction



send bitcoin

- ✓ create transaction
- ✓ sign transaction
- ✓ connect to network
- ✓ broadcast transaction
- ✓ verify transaction



receive bitcoin

- ✓ create key
- ✓ show key address
- ✓ connect to network
- ✓ verify transaction

send bitcoin

- ✓ create transaction
- ✓ sign transaction
- ✓ connect to network
- ✓ broadcast transaction
- ✓ verify transaction

option 1: **pruned node**



1. initial download/verify
2. cannot restore old wallet
3. cannot share blockchain

receive bitcoin

- ✓ create key
- ✓ show key address
- ✓ connect to network
- ✓ verify transaction

send bitcoin

- ✓ create transaction
- ✓ sign transaction
- ✓ connect to network
- ✓ broadcast transaction
- ✓ verify transaction



option 1: **pruned node**



receive bitcoin

create key

show key address

connect to network

verify transaction

send bitcoin

create transaction

sign transaction

connect to network

broadcast transaction

verify transaction



option 2: **spv node**



receive bitcoin

create key

show key address

connect to network

verify transaction

send bitcoin

create transaction

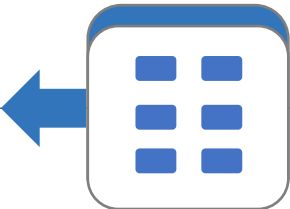
sign transaction

connect to network

broadcast transaction

verify transaction

option 2: **spv node**



receive bitcoin

create key

show key address

connect to network

verify transaction

send bitcoin

create transaction

sign transaction

connect to network

broadcast transaction

verify transaction



option 2: **spv node**



1. Bitcoin version
2. Previous Block Hash
3. **Transaction summary**
4. Timestamp
5. Difficulty target
6. Random number (Nonce)

receive bitcoin

create key

show key address

connect to network

verify transaction

send bitcoin

create transaction

sign transaction

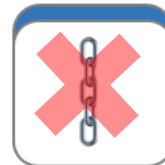
connect to network

broadcast transaction

verify transaction



option 2: **spv node**



receive bitcoin

create key

show key address

connect to network

verify transaction

send bitcoin

create transaction

sign transaction

connect to network

broadcast transaction

verify transaction

option 2: **spv node**



address 1	address 13	address 25	address 37
address 2	address 14	address 26	address 38
address 3	address 15	address 27	address 39
address 4	address 16	address 28	address 40
address 5	address 17	address 29	address 41
address 6	address 18	address 30	address 42
address 7	address 19	address 31	address 43
address 8	address 20	address 32	address 44
address 9	address 21	address 33	address 45
address 10	address 22	address 34	address 46
address 11	address 23	address 35	address 47
address 12	address 24	address 36	address 48



- receive bitcoin
- create key
- show key address
- connect to network
- verify transaction

- send bitcoin
- create transaction
- sign transaction
- connect to network
- broadcast transaction
- verify transaction

option 2: **spv node**



Bloom filter



receive bitcoin

create key

show key address

connect to network

verify transaction

send bitcoin

create transaction

sign transaction

connect to network

broadcast transaction

verify transaction

option 2: **spv node**



receive bitcoin

create key

show key address

connect to network

verify transaction

send bitcoin

create transaction

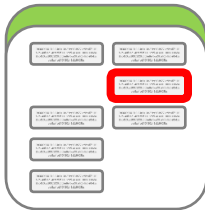
sign transaction

connect to network

broadcast transaction

verify transaction

option 2: **spv node**



receive bitcoin

create key

show key address

connect to network

verify transaction

send bitcoin

create transaction

sign transaction

connect to network

broadcast transaction

verify transaction

option 2: **spv node**



receive bitcoin

create key

show key address

connect to network

verify transaction

send bitcoin

create transaction

sign transaction

connect to network

broadcast transaction

verify transaction

watch-only wallet



receive bitcoin

create key

show key address

connect to network

verify transaction

send bitcoin

create transaction

sign transaction

connect to network

broadcast transaction

verify transaction

watch-only wallet



receive bitcoin

create key

show key address

connect to network

verify transaction

send bitcoin

create transaction

sign transaction

connect to network

broadcast transaction

verify transaction

watch-only wallet



receive bitcoin

create key

show key address

connect to network

verify transaction

send bitcoin

create transaction

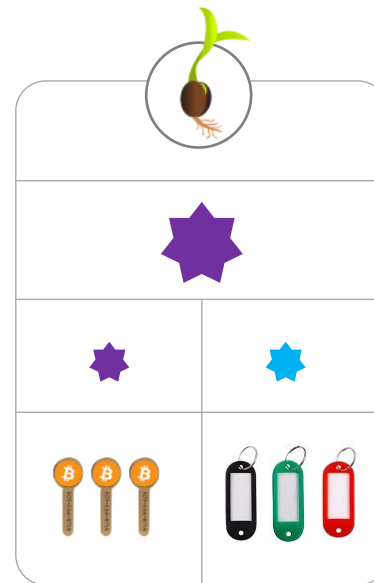
sign transaction

connect to network

broadcast transaction

verify transaction

watch-only wallet



receive bitcoin

create key

show key address

connect to network

verify transaction

send bitcoin

create transaction

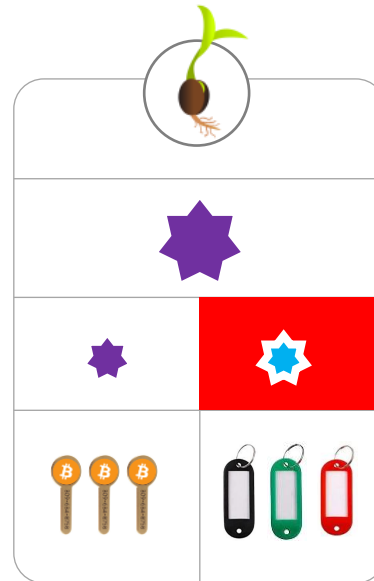
sign transaction

connect to network

broadcast transaction

verify transaction

watch-only wallet



receive bitcoin

create key

show key address

connect to network

verify transaction

send bitcoin

create transaction

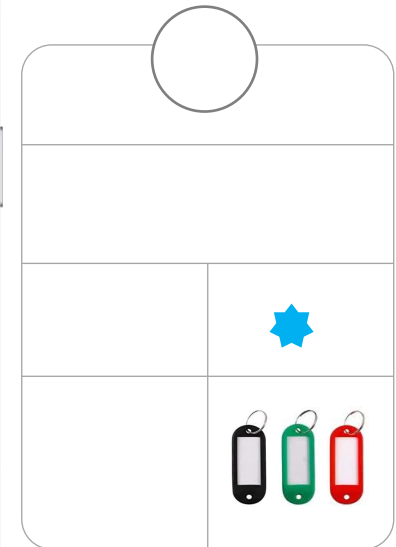
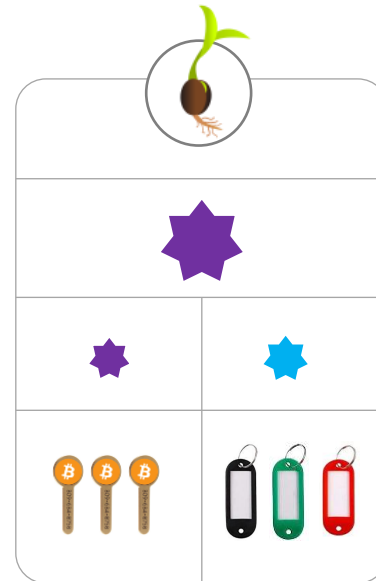
sign transaction

connect to network

broadcast transaction

verify transaction

watch-only wallet



receive bitcoin

create key

show key address

connect to network

verify transaction

send bitcoin

create transaction

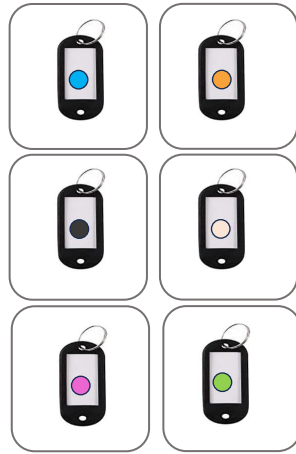
sign transaction

connect to network

broadcast transaction

verify transaction

watch-only wallet



receive bitcoin

create key

show key address

connect to network

verify transaction

send bitcoin

create transaction

sign transaction

connect to network

broadcast transaction

verify transaction

watch-only wallet



receive bitcoin

create key

show key address

connect to network

verify transaction

send bitcoin

create transaction

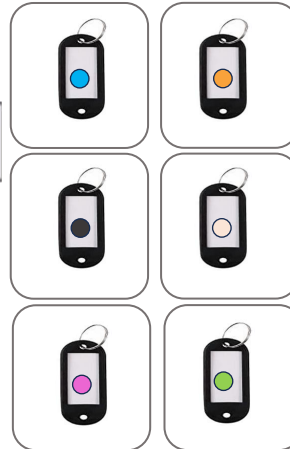
sign transaction

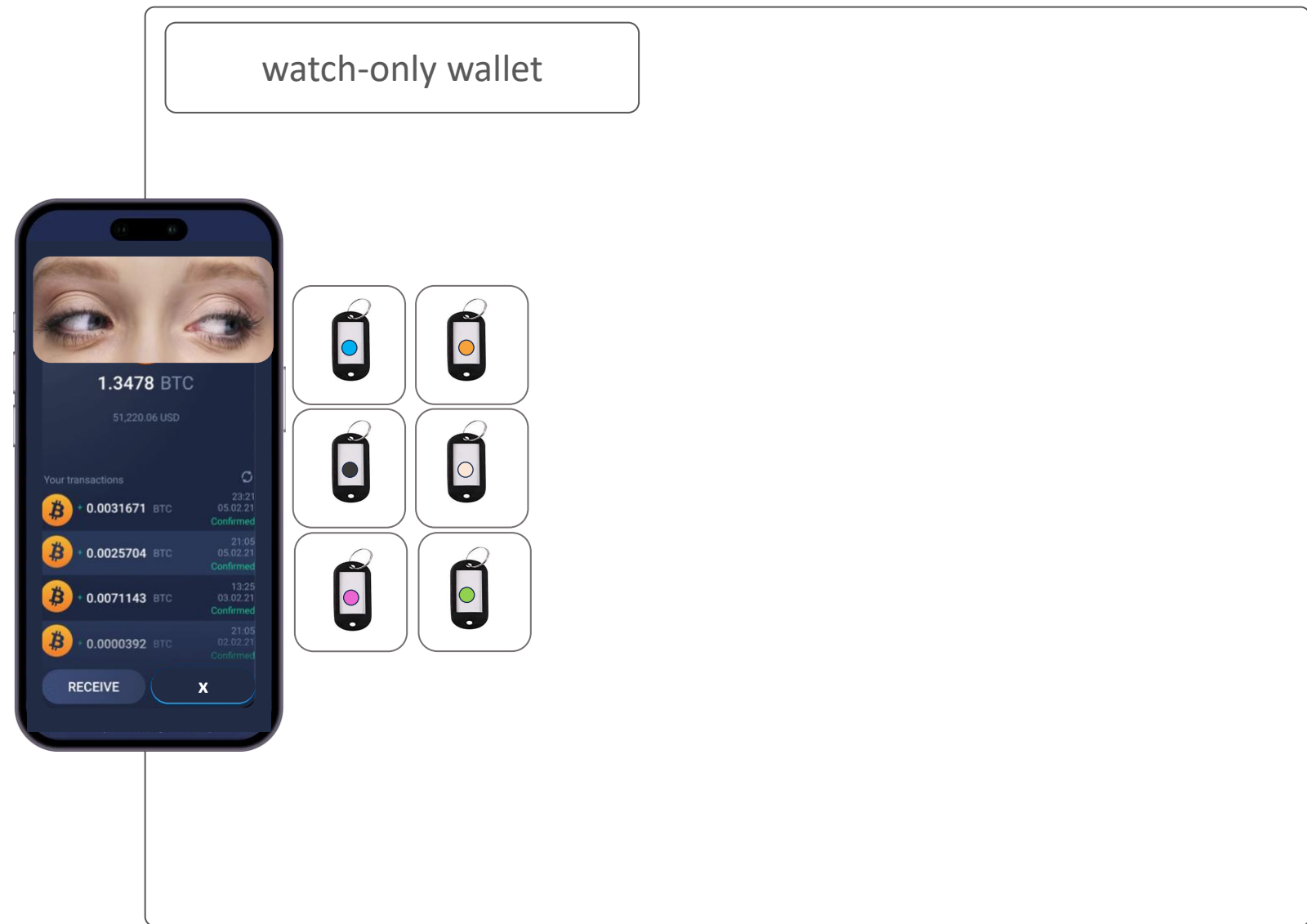
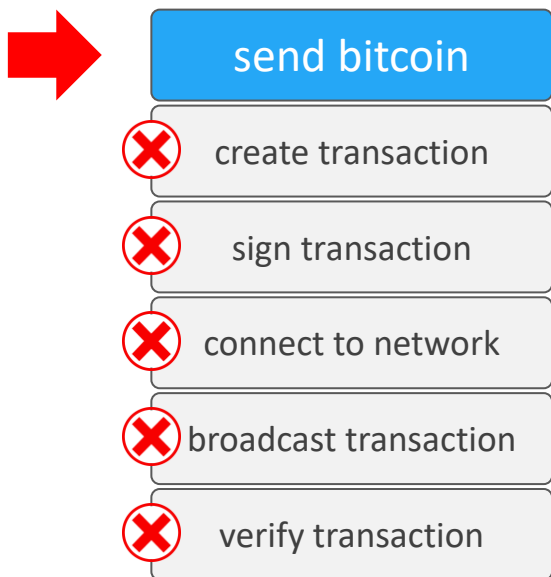
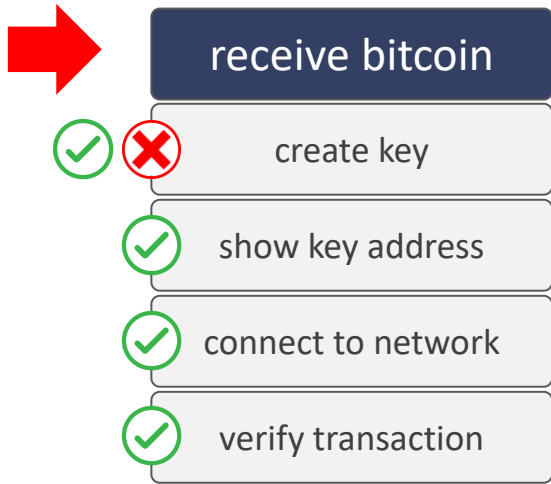
connect to network

broadcast transaction

verify transaction

watch-only wallet



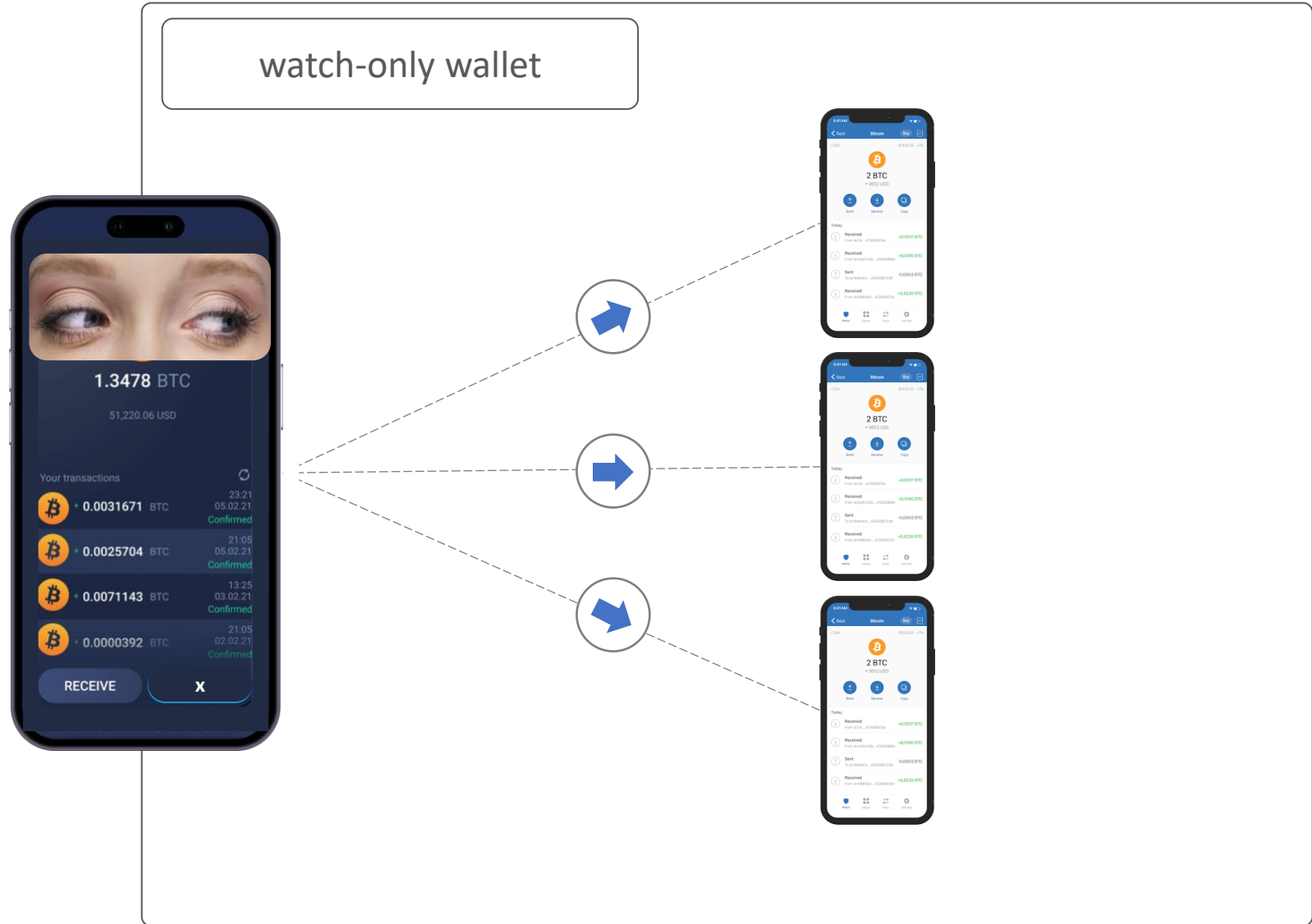


receive bitcoin

- ✓ ✗ create key
- ✓ show key address
- ✓ connect to network
- ✓ verify transaction

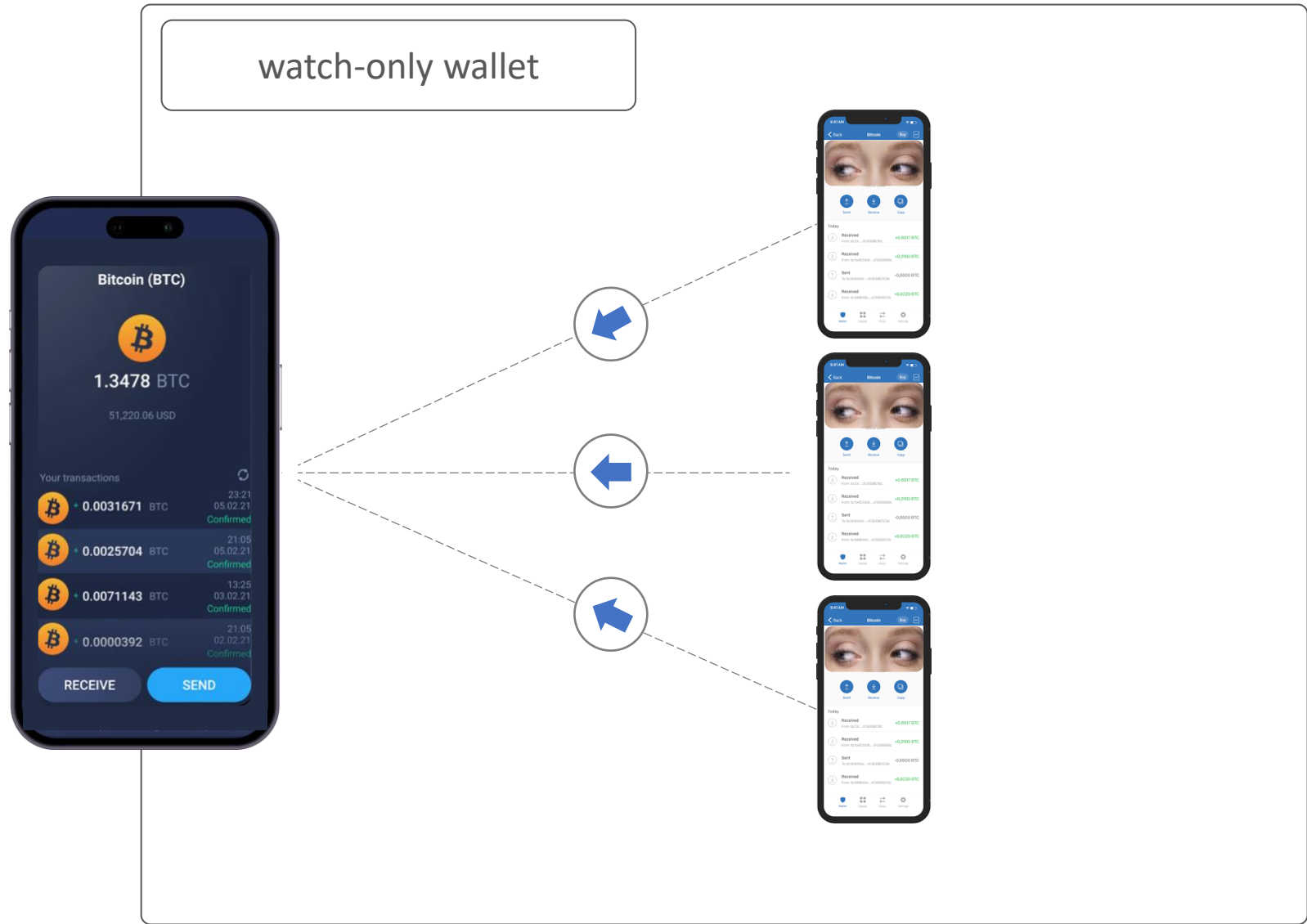
send bitcoin

- ✗ create transaction
- ✗ sign transaction
- ✗ connect to network
- ✗ broadcast transaction
- ✗ verify transaction



- receive bitcoin**
- ✓ ✗ create key
 - ✓ show key address
 - ✓ connect to network
 - ✓ verify transaction

- send bitcoin**
- ✗ create transaction
 - ✗ sign transaction
 - ✗ connect to network
 - ✗ broadcast transaction
 - ✗ verify transaction



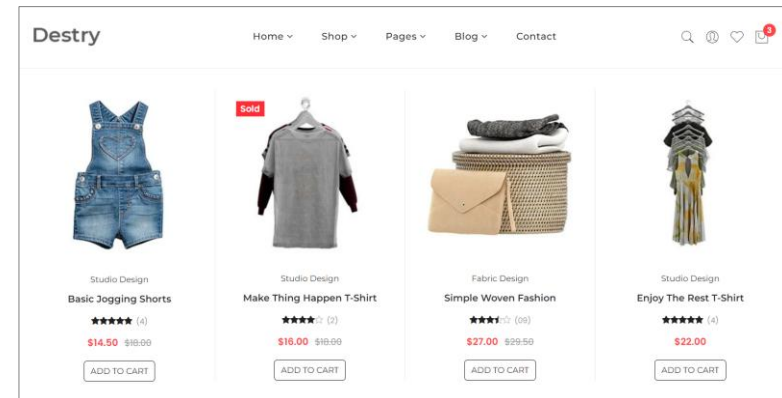
receive bitcoin

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send bitcoin

- ✗ create transaction
- ✗ sign transaction
- ✗ connect to network
- ✗ broadcast transaction
- ✗ verify transaction

watch-only wallet



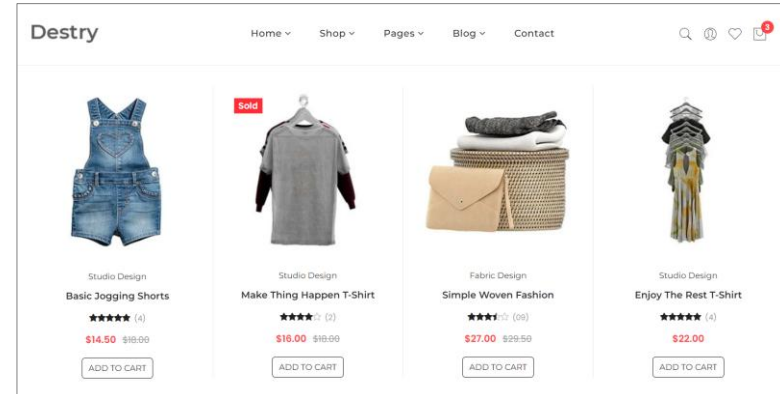
receive bitcoin

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send bitcoin

- ✗ create transaction
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- ✗ broadcast transaction
- ✗ verify transaction

watch-only wallet



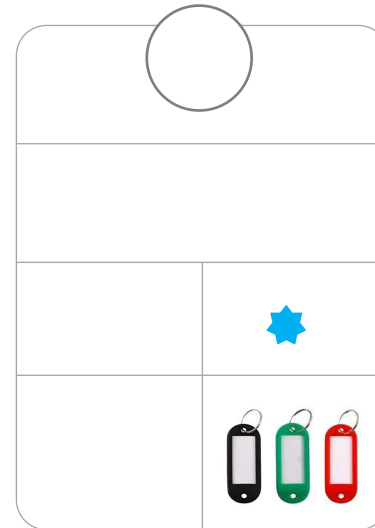
receive bitcoin

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watch-only wallet



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watch-only wallet



receive bitcoin

create key

show key address

connect to network

verify transaction

send bitcoin

create transaction

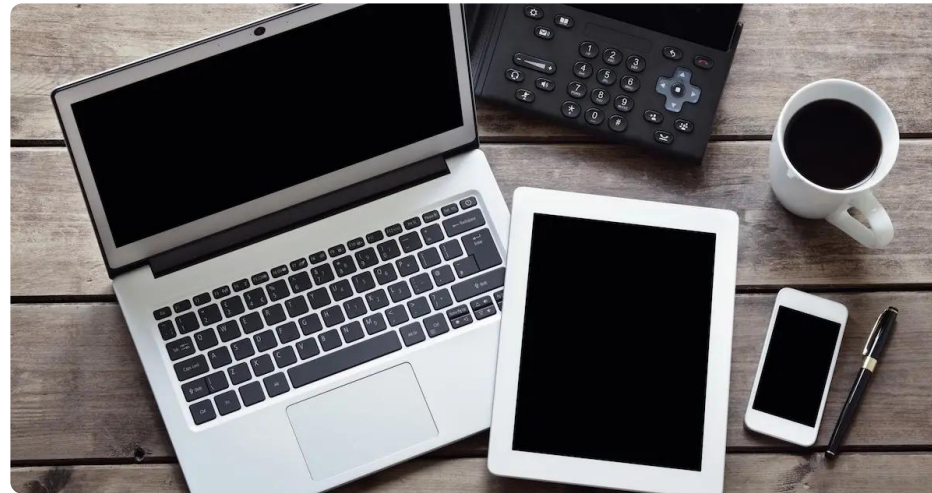
sign transaction

connect to network

broadcast transaction

verify transaction

hot wallet





receive bitcoin

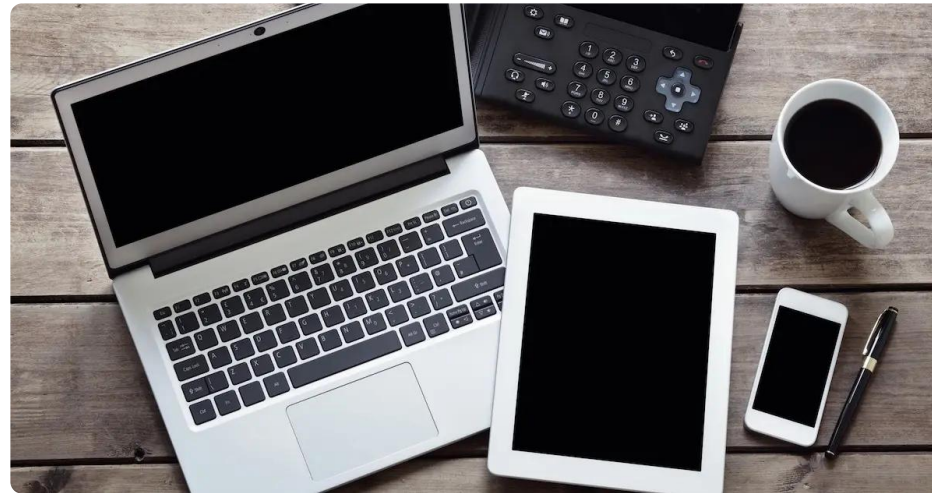
- ✓ create key
- ✓ show key address
- ✓ connect to network
- ✓ verify transaction



send bitcoin

- ✓ create transaction
- ✓ sign transaction
- ✓ connect to network
- ✓ broadcast transaction
- ✓ verify transaction

hot wallet



receive bitcoin

create key

show key address

connect to network

verify transaction

send bitcoin

create transaction

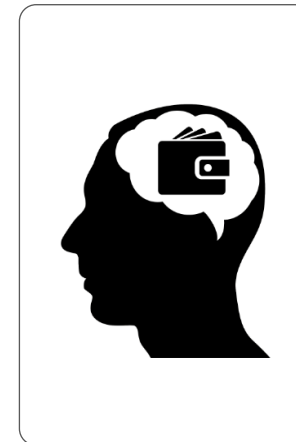
sign transaction

connect to network

broadcast transaction

verify transaction

cold wallet



receive bitcoin

create key

show key address

connect to network

verify transaction

send bitcoin

create transaction

sign transaction

connect to network

broadcast transaction

verify transaction

cold wallet



receive bitcoin

create key

show key address

connect to network

verify transaction

send bitcoin

create transaction

sign transaction

connect to network

broadcast transaction

verify transaction

cold wallet



- camera
- lan port
- wifi antenna
- wifi card
- bluetooth radio
- nfc chip

receive bitcoin

- ✓ create key
- ✓ show key address
- ✗ connect to network
- ✗ verify transaction

send bitcoin

- ✗ create transaction
- ✓ sign transaction
- ✗ connect to network
- ✗ broadcast transaction
- ✗ verify transaction

cold wallet



receive bitcoin

- ✓ create key
- ✓ show key address
- ✗ connect to network
- ✗ verify transaction

send bitcoin

- ✗ create transaction
- ✓ sign transaction
- ✗ connect to network
- ✗ broadcast transaction
- ✗ verify transaction

cold wallet



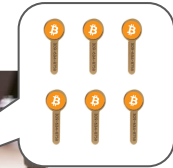
receive bitcoin

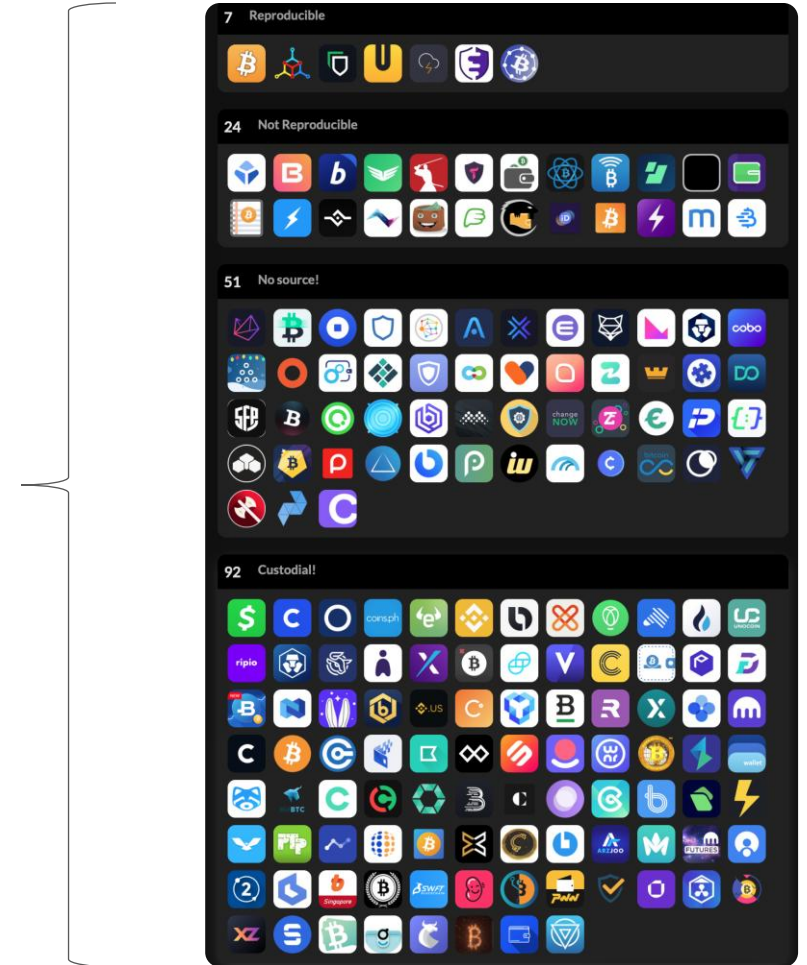
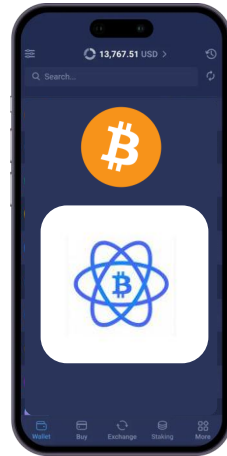
- ❌ create key
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- ❌ connect to network
- ❌ verify transaction

send bitcoin

- ❌ create transaction
- ✅ sign transaction
- ❌ connect to network
- ❌ broadcast transaction
- ❌ verify transaction

watch-only wallet







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