Bitcoin Multisig Script

```
Script Machine Stack
Input Script
                         [1]
0P_0
[Endorsement 1]
[Endorsement 2]
2/3 Multisig Script
0P_2
[Public Key 1]
[Public Key 2]
[Public Key 3]
0P_3
OP_CHECKMULTISIG
```

N-of-M multisig output script

 Requires n endorsements from m possible signers.

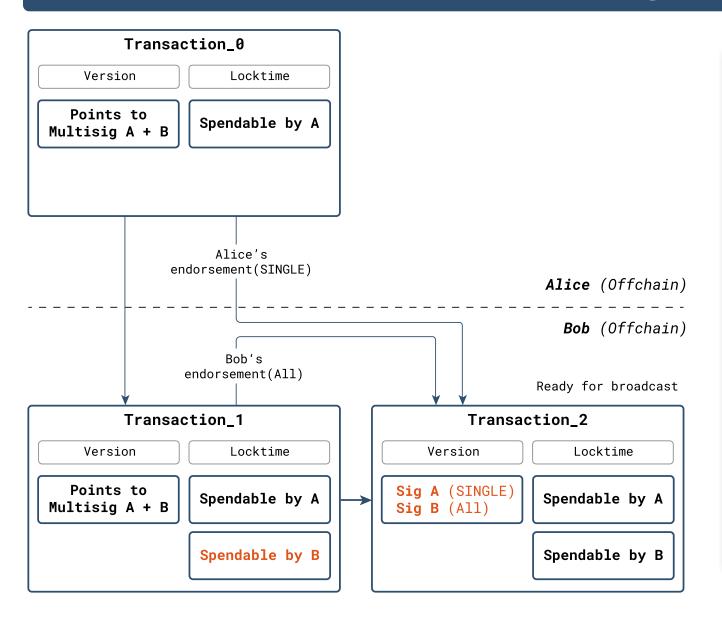
Multisig requires extra op-code

- Multisig consumes one extra op_code.
- This op_code has no functionality.
- Requires hardfork to fix this bug.

Multisig usually wrapped in P2SH/P2WSH

 See sections on P2SH and witness transactions.

Example: Multisig Script Signing



Two parties spend a 2/3 multisig output to their respective outputs.

- 1) Alice builds & signs transaction.
- Transaction only includes her an output spendable by herself.
- 2) Bob gets endorsement & Alice's pubkey.
- Public key allows bob to reconstruct transaction which Alice signed.
- 3) Bob adds his output and signs.
- 4) Bob adds endorsements to transaction.
 - Completed transaction spending the multsig output can now be broadcast.