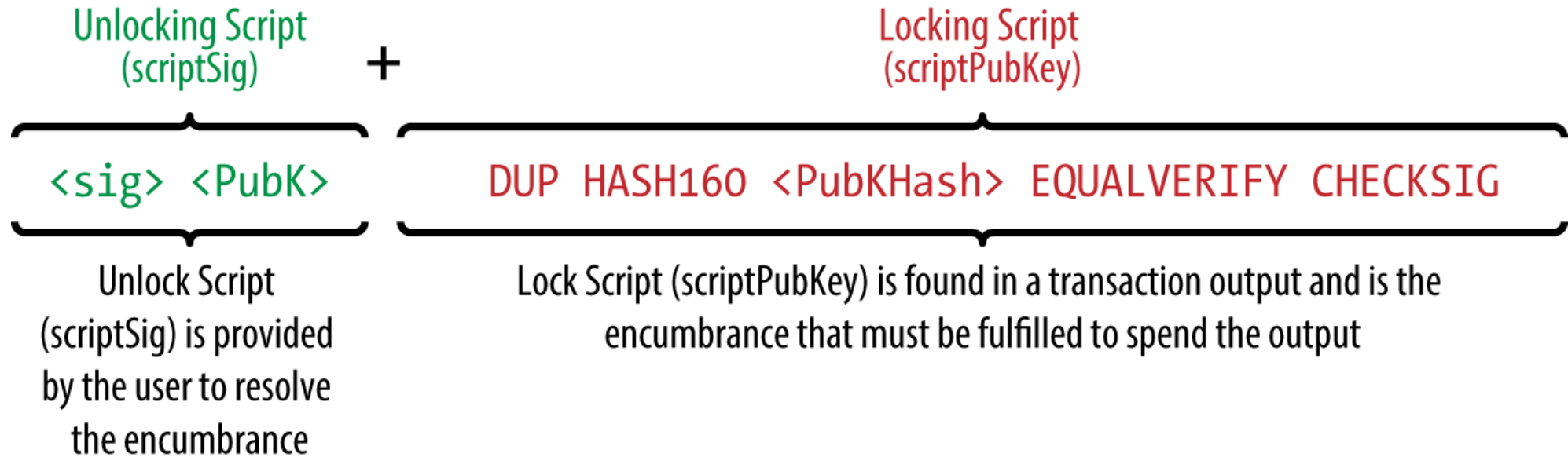
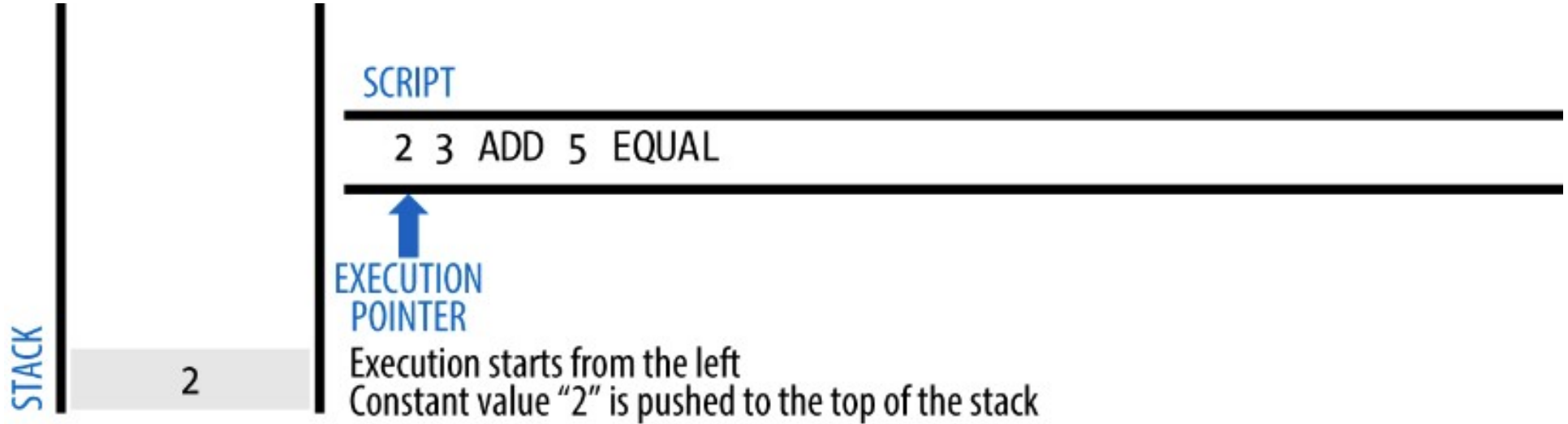


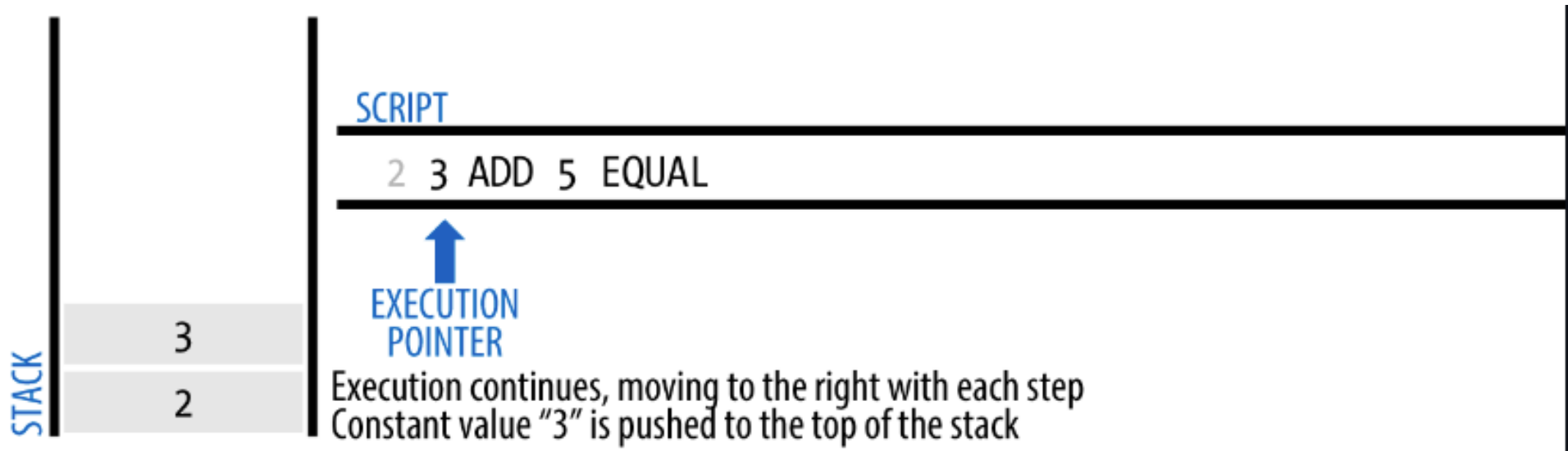
Bitcoin Script Execution

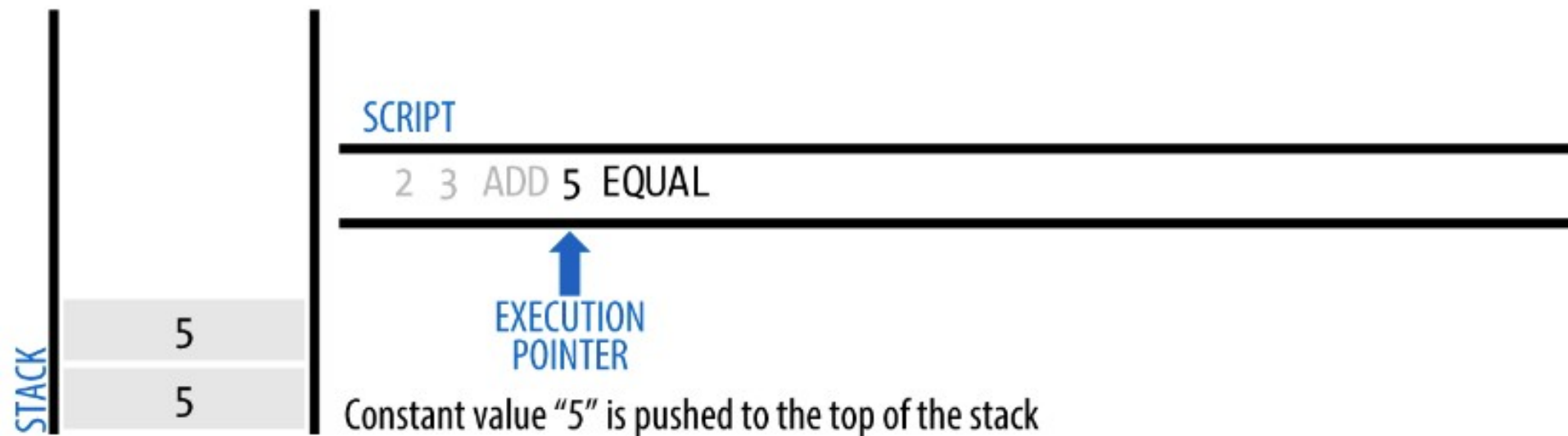
Unlocking an Unspent Output (UTXO)

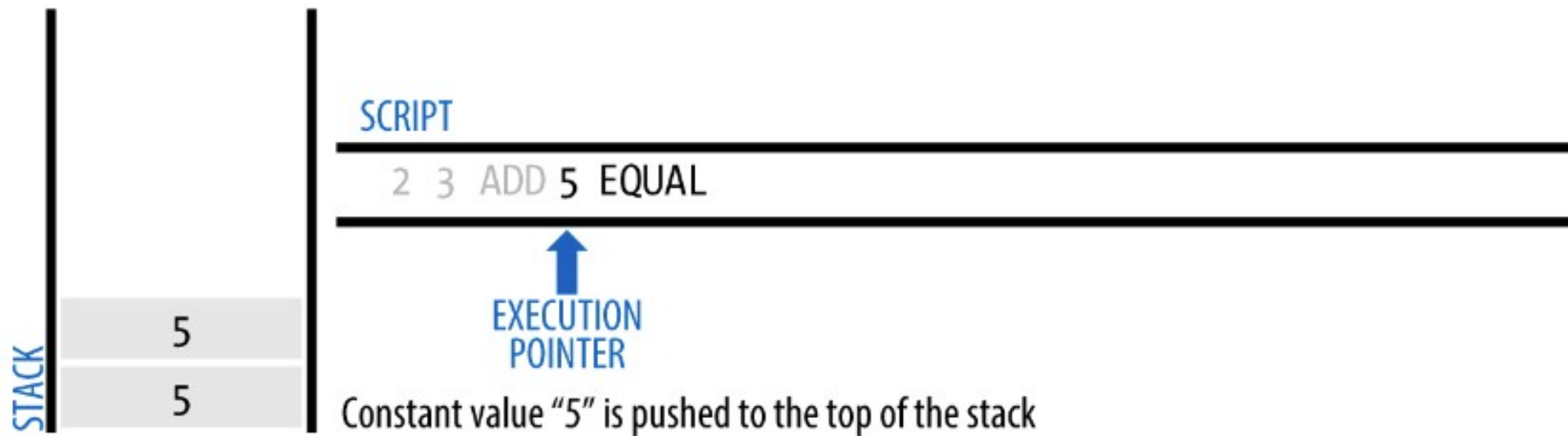


Basic Addition Script









STACK

TRUE

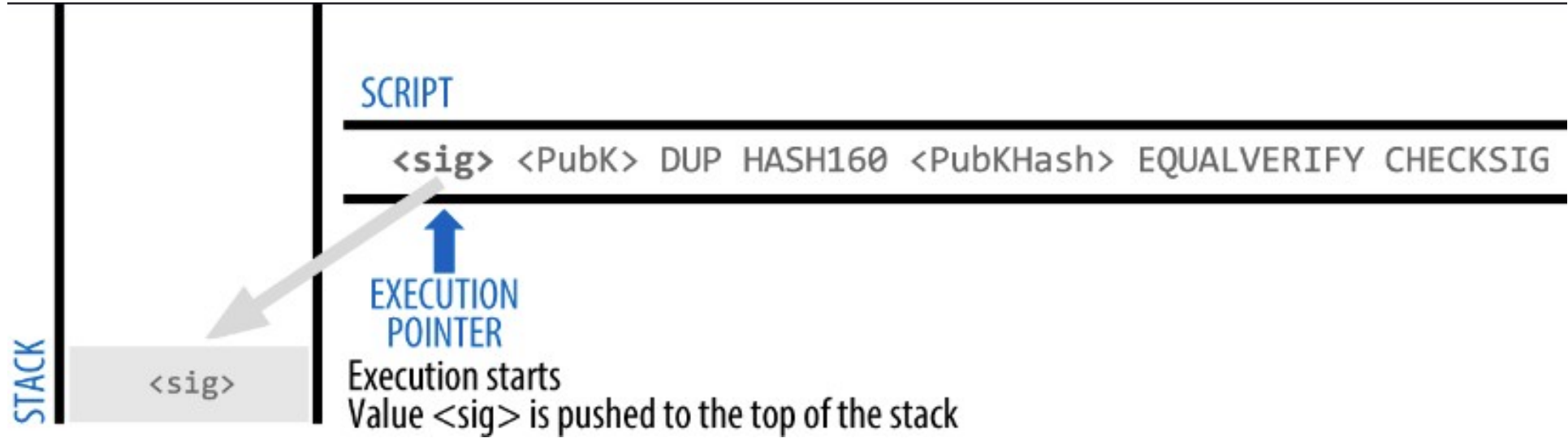
SCRIPT

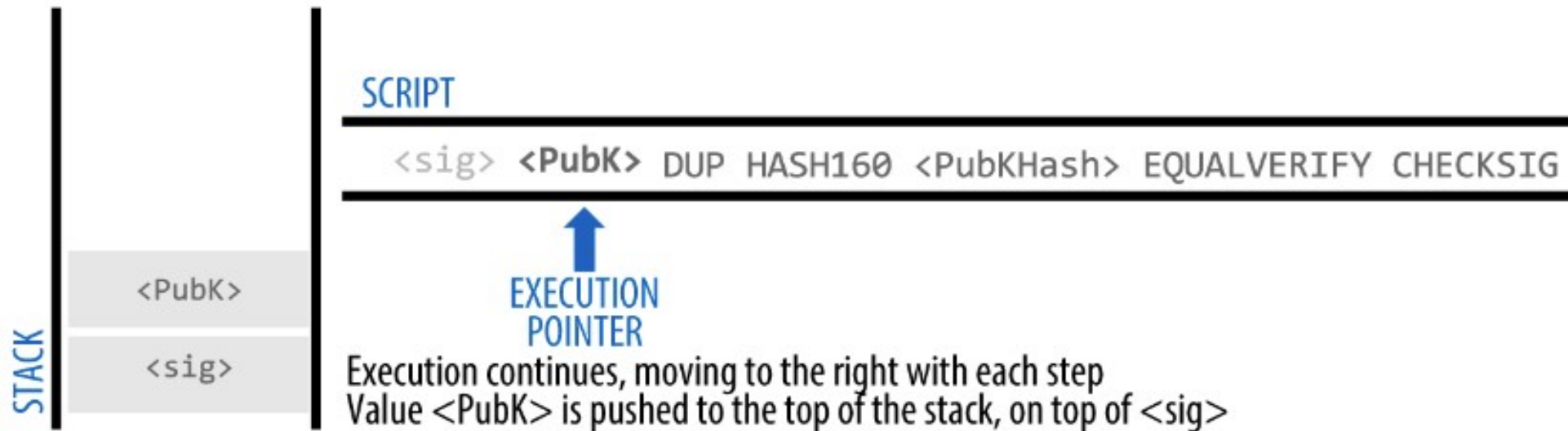
2 3 ADD 5 EQUAL

↑
EXECUTION
POINTER

Operator EQUAL pops the top two items out of the stack and compares the values (5 and 5) and if they are equal, EQUAL pushes TRUE (TRUE = 1) to the top of the stack

Pay To Pub-key Hash (P2PKH)





STACK

<PubK>

<PubK>

<sig>

SCRIPT

<sig> <PubK> **DUP** HASH160 <PubKHash> EQUALVERIFY CHECKSIG

↑
EXECUTION
POINTER

DUP operator duplicates the top item in the stack,
the resulting value is pushed to the top of the stack

STACK

<PubKHash>

<PubK>

<sig>

SCRIPT

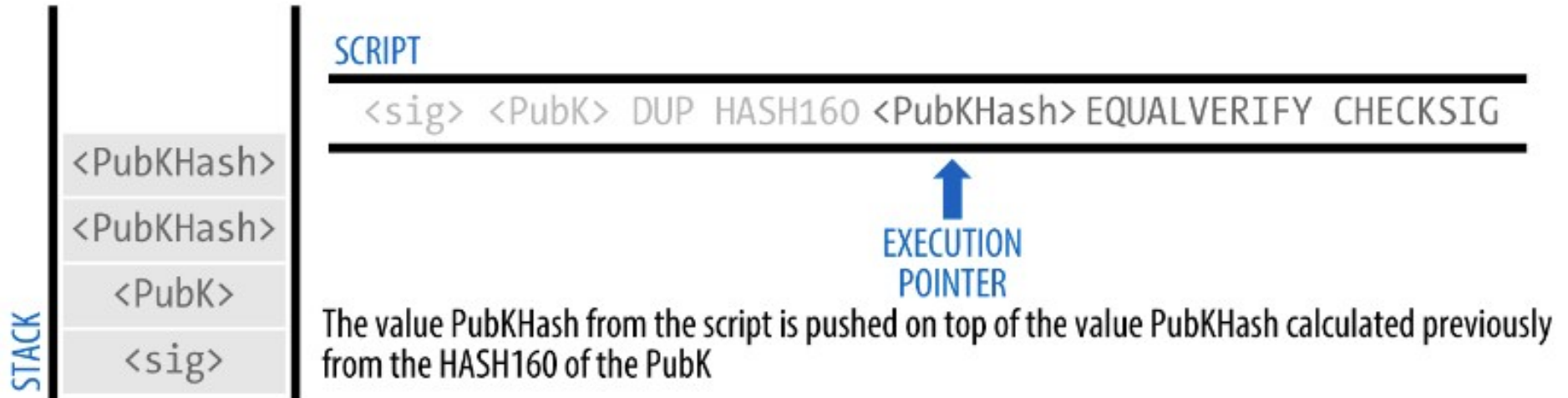
<sig> <PubK> DUP HASH160 <PubKHash> EQUALVERIFY CHECKSIG

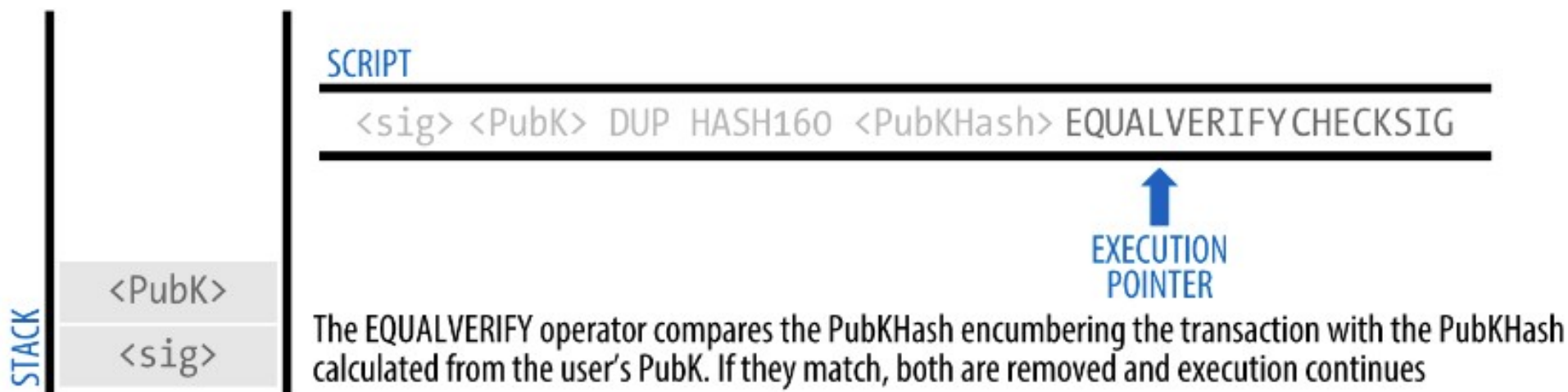


EXECUTION
POINT

HASH160 operator hashes the top item in the stack with RIPEMD160(SHA256(PubK))
the resulting value (PubKHash) is pushed to the top of the stack

```
"vout": [  
  {  
    "value": 0.10000000,  
    "scriptPubKey": "OP_DUP OP_HASH160  
7f9b1a7fb68d60c536c2fd8aeaa53a8f3cc025a8 OP_EQUALVERIFY  
OP_CHECKSIG"  
  }  
]
```





STACK

TRUE

SCRIPT

<sig> <PubK> DUP HASH160 <PubKHash> EQUALVERIFY CHECKSIG



EXECUTION
POINTER

The CHECKSIG operator checks that the signature <sig> matches the public key <PubK> and pushes TRUE to the top of the stack if true.