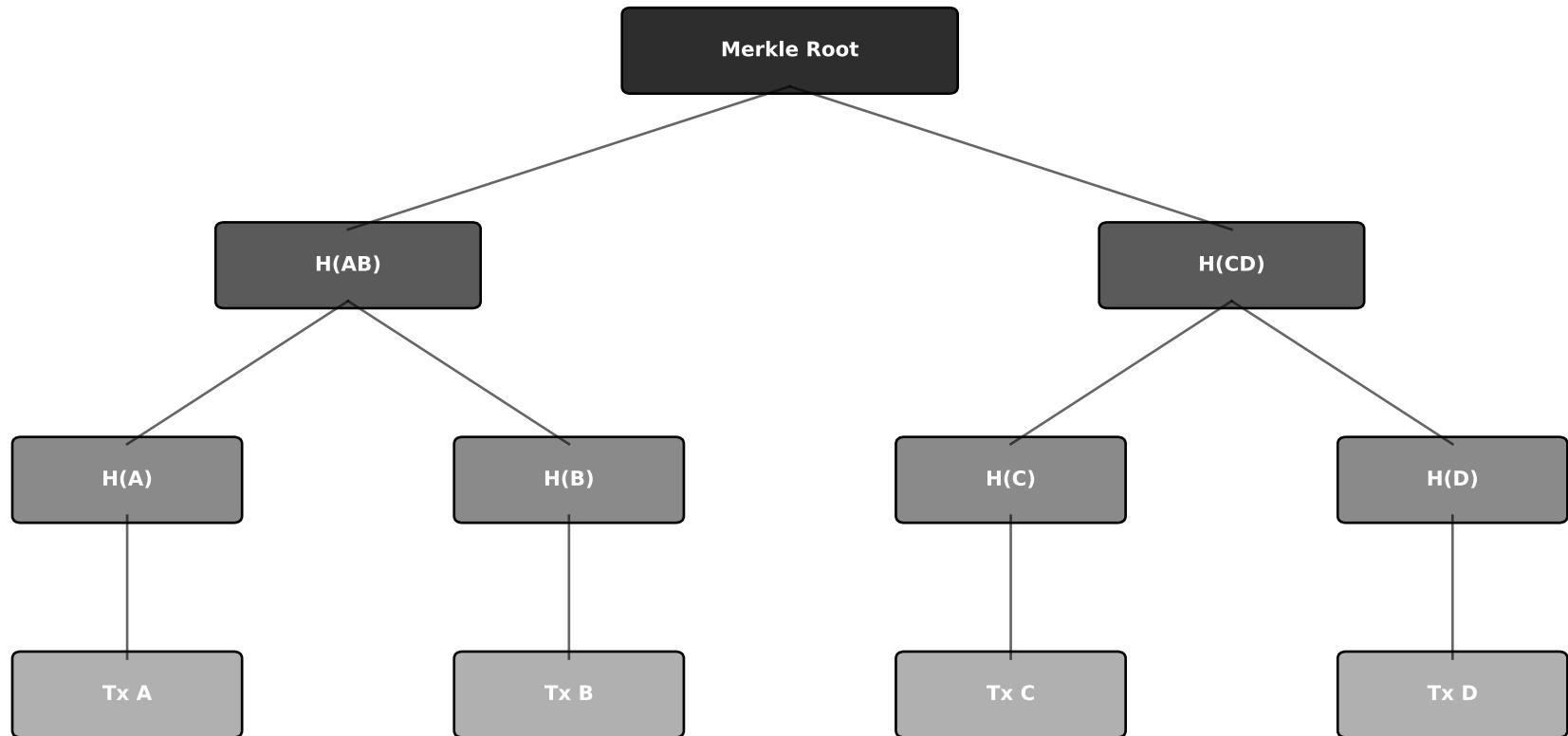


Merkle Tree: Efficient Transaction Verification



Verification process: To verify a transaction, only the Merkle Root (in block header), the transaction index, and the corresponding Leaf Hash (Tx A, B, C, or D) need to be checked against the Merkle Root of the tree, only the Merkle Root, and Root Branch Hashes.