

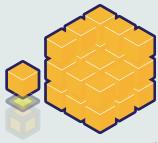
Tips on Bitcoin transaction confirmation and miners





Helpful terms







Block

A block has an average of 3000 transactions. Blocks in a blockchain are chained together in order, just like a train.

Miner

Miners are computers, not humans! Millions of miners around the world perform complex mathematical calculations, hoping to confirm the block as soon as possible.



Memory pool

Thousands of transactions in memory pool are waiting to be confirmed. The miners select high reward transactions from the mining pool for broadcasting.



Broadcasting

Miners perform mathematical calculations to confirm a block. Only the first miner who successfully solve the block can be rewarded.



Sending fees (Mining fees)

In a transaction, the sender must pay an appropriate amount of sending fees to reward the miner.



Confirmation number

After the miner successfully has broadcast the latest block, all transactions in that block will receive 1 confirmation.





Waiting time depends on

- How congested the blockchain is
- Amount of the sending fee



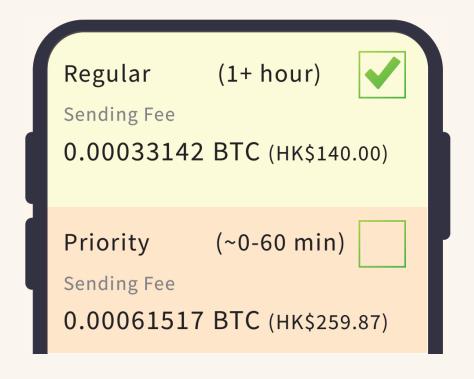
A higher sending fee encourages the miners to confirm your transaction

Even you paid a high sending fee, you still need to wait for the next block, which takes about 10 minutes on average





Some wallets allow users to customize the sending fee, and list the corresponding required time.





Bitcoin transaction records are open and transparent, you can use Bitcoin Browser to view the latest transaction records, such as blockchain.com or blockchair.com





I paid 0.0024 BTC as sending fee

Transaction A

I paid 0.0033 BTC as sending fee

Transaction B





I will let transaction B to get in the train first, because transaction A takes up too much space.

Hash 4d8db20aa27c5e1e2a82eb222f696e336d6477fd25039a94534... 34r9sKvvzYffmtHwZAwQBTQEE3UvSTaZL1 0.05820165 BTC (#) 34r9sKvvzYffmtHwZAwQBTQEE3UvSTaZL1 0.04079082 BTC 🏶 0.03567417 BTC (#) 34r9sKyvzYffmtHwZAwQBTQEE3UvSTaZL1 34r9sKyvzYffmtHwZAwQBTQEE3UvSTaZL1 0.03551779 BTC 🏶 34r9sKyvzYffmtHwZAwQBTQEE3UvSTaZL1 0.02164403 BTC (#) 0.02065368 BTC 🏶 34r9sKyvzYffmtHwZAwQBTQEE3UvSTaZL134r9sKvvzYffmtHwZAwQBTQEE3UvSTaZL1 0.02044280 BTC @ 34r9sKyvzYffmtHwZAwQBTQEE3UvSTaZL1 0.01967230 BTC # 0.00240486 BTC (165.967 sat/B - 74.988 sat/WU - 1449 bytes)

Miners will consider the sending fee (sat), Also consider the size of theydata (byte). The unit of miner fee is sat / byte.

sat = fare (sending fee)
byte = baggage size (data size)

Transaction A

Fee

0.00240486 BTC (165.967 sat/B - 74.988 sat/WU - 1449 bytes)





Transaction B

Fee 0.00033674 BTC (176.304 sat/B - 44.076 sat/WU - 191 bytes)



Although transaction A paid a higher sendingtiee, its data size is too large and it will occupy more space in block. The fee of transaction A is 165.967 sat/B, while the fee of transaction B is 176.304 sat/B. Therefore, the miners will confirm transaction B first.



I paid a high fare for this train, and it has been more than 10 minutes. Why the train still don't depart?

Check the time required for the train to depart in the past (Average time required for a blockto build)

10 minutes is only the average time, it can be fast or slow. There are two shifts of train a minute if it is fast, and just one shift every three hours if it is slow.



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