



Transactions

Mark	->	Me	0.1 BTC
Hadelin	->	Me	0.3 BTC
Helen	->	Me	0.6 BTC
Susan	->	Me	0.7 BTC

UTXOs: Unspent Transaction Output

Mark -> Me 0.1 BTC
Hadelin -> Me 0.3 BTC
Helen -> Me 0.6 BTC
Susan -> Me 0.7 BTC

Example 1

Mark -> Me 0.1 BTC

Hadelin -> Me 0.3 BTC

Helen -> Me 0.6 BTC

Susan -> Me 0.7 BTC

I want to Buy a bicycle for 0.5 BTC

TRANSACTION:

Input:

0.6 BTC from Helen

 Mark
 ->
 Me
 0.1 BTC

 Hadelin
 ->
 Me
 0.3 BTC

 Helen
 ->
 Me
 0.6 BTC

 Susan
 ->
 Me
 0.7 BTC

I want to Buy a bicycle for 0.5 BTC

TRANSACTION:

Input:

0.6 BTC from Helen

}

Output:

0.5 BTC to the bike shop,

 Mark
 ->
 Me
 0.1 BTC

 Hadelin
 ->
 Me
 0.3 BTC

 Helen
 ->
 Me
 0.6 BTC

 Susan
 ->
 Me
 0.7 BTC

I want to Buy a bicycle for 0.5 BTC

TRANSACTION:

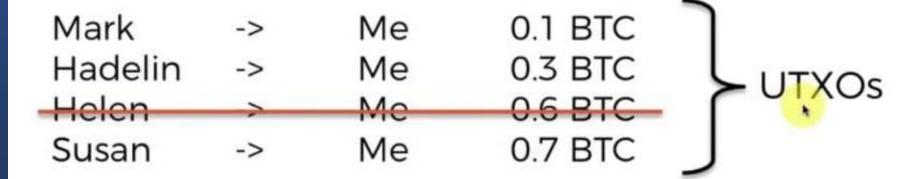
Input:

0.6 BTC from Helen

Output:

0.5 BTC to the bike shop,

0.1 BTC back to myself



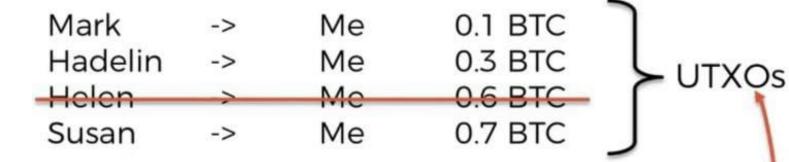
I want to Buy a bicycle for 0.5 BTC

TRANSACTION:

Input: 0.6 BTC from Helen C

Output:

0.5 BTC to the bike shop,0.1 BTC back to myself

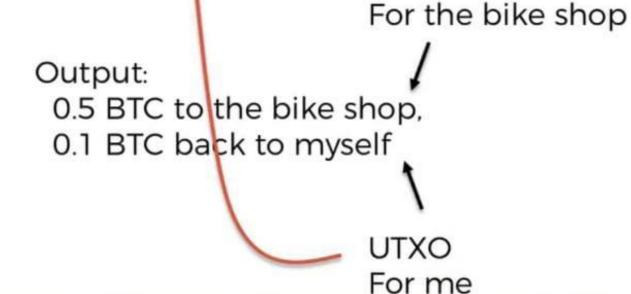


I want to Buy a bicycle for 0.5 BTC

TRANSACTION:

Input:

0.6 BTC from Helen



UTXO

0.1 BTC Mark Me -> Hadelin 0.3 BTC Me -> **UTXOs** 0.7 BTC Me Susan 0.1 BTC Me

Me

->

Example 2:

Mark -> Me 0.1 BTC
Hadelin -> Me 0.3 BTC
Susan -> Me 0.7 BTC
Me -> Me 0.1 BTC

I want to Buy a 2nd bicycle for 1.1 BTC



I want to Buy a 2nd bicycle for 1.1 BTC

TRANSACTION:

Input:

0.3 BTC from Hadelin,

0.7 BTC from Susan,

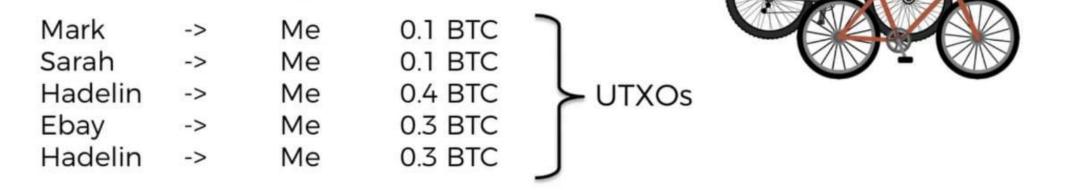
0.1 BTC from Me

Output:

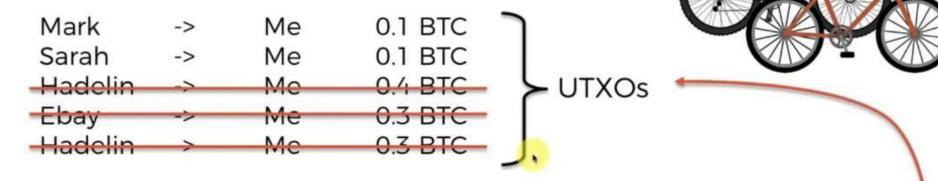
1.1 BTC to the bike shop,

UTXO
For the bike shop

Mark -> Me 0.1 BTC \to UTXOs



I want to Buy a 3rd bicycle for 0.9 BTC and an apple for 0.02 BTC



I want to Buy a 3rd bicycle for 0.9 BTC and an apple for 0.02 BTC

TRANSACTION:

Input:

0.4 BTC from Hadelin,

0.3 BTC from Ebay

0.3 BTC from Hadelin

Output:

0.9 BTC to the bike shop,

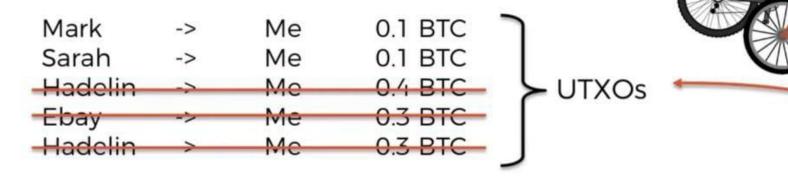
0.02 BTC to the fruit shop,

0.06 BTC to myself

UTXO for the bike shop

UTXO for the bike shop

UTXO for me



I want to Buy a 3rd bicycle for 0.9 BTC and an apple for 0.02 BTC

TRANSACTION:

Input:

0.4 BTC from Hadelin.

0.3 BTC from Ebay

0.3 BTC from Hadelin

Output:

0.9 BTC to the bike shop,

0.02 BTC to the fruit shop,

0.06 BTC to myself

Fees: 0.02 BTC

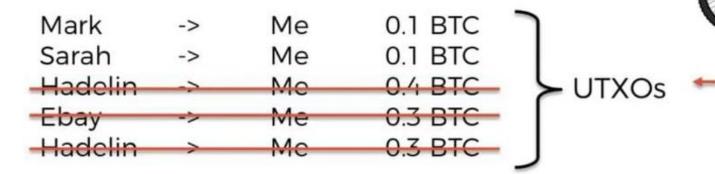
UTXO for the bike shop

UTXO for the bike shop

UTXO for me

UTXO of miner

Where do transaction fees come from?



I want to Buy a 3rd bicycle for 0.9 BTC and an apple for 0.02 BTC

TRANSACTION:

Input:

0.4 BTC from Hadelin,

0.3 BTC from Ebay

0.3 BTC from Hadelin

Output:

0.9 BTC to the bike shop,

0.02 BTC to the fruit shop,

0.06 BTC to myself

UTXO for the bike shop

UTXO for the bike shop

UTXO for me

Mark -> Me 0.1 BTC
Sarah -> Me 0.1 BTC
Me 0.0.6 BTC

Me 0.0.6 BTC

Acknowledgement and Source:

https://www.udemy.com/course/build-your-blockchain-az/