

## Common Fungible



mint -> balance of treasury increased

## Unique Fungible



mint -> balance of treasury increased

**BUT**

- newly minted supply has a serial number attached
- We must be able to query the owner of serial number #1
- If Account A wants to send balance to Account B he only specifies "amount" and under the hood the ownership of the serial numbers are changed to Account B

- Querying Balance of Account A should return 2
- Querying Balance of B should return 1
- Account A transferring Serial Number 1 to B should decrease Account A balance with 1 and increase Account B balance with 1

## Unique Non-fungible, Singleton

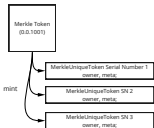


mint -> balance of treasury increased

**BUT**

- newly minted NFT has a serial number attached
- There is only one Unique Token that can be minted. It is considered only 1 out of 1
- Account balance on Token Entity level is simply the number of Serial Numbers owned by the account. They have concept of ownership of Serial numbers.
- Account A can send SN1 to Account B and the "Token balance" must be reduced by 1

## Unique Non-fungible, Whole

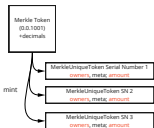


mint -> balance of treasury increased

**BUT**

- newly minted NFT has a serial number attached
- Accounts do not have a concept of "balance" on MerkleUniqueToken level.
- Account balance on Token Entity level is simply the number of Serial Numbers owned by the account. They have concept of ownership of Serial numbers.
- Account A can send SN1 and SN2 to Account B and its "Token balance" must be reduced by 2

## Unique Non-fungible, Fractional



mint -> balance of treasury increased

**BUT**

- newly minted NFT has a serial number attached and amount
- There is a concept of "supply" on MerkleUniqueToken level. If amount is 100 (and decimals on Token Level is 0), the NFT can be considered to have 100 shares.
- Accounts do have a concept of "balance" on Token Level and UniqueToken level. Balance on Token level is the number of SerialNumbers owned. Balance of an Account on UniqueToken level is the number of shares owned.
- Account A can send all its shares of SN1 and SN2 to Account B and its "Token balance" must reduce by 2