

ERC-721 Contract State Variables

ERC-721 Smart Contract

```
contract MyNFT is ERC721 { ... }
```

`_owners`

`tokenId => owner`

`1 => 0xAlice`

`_balances`

`owner => count`

`0xAlice => 3`

`_approvals`

`tokenId => spender`

`1 => 0xBob`

`_operators`

`owner => op => bool`

`Alice=>OpenSea=>true`

Mappings provide $O(1)$ lookup by key - efficient for sparse token IDs